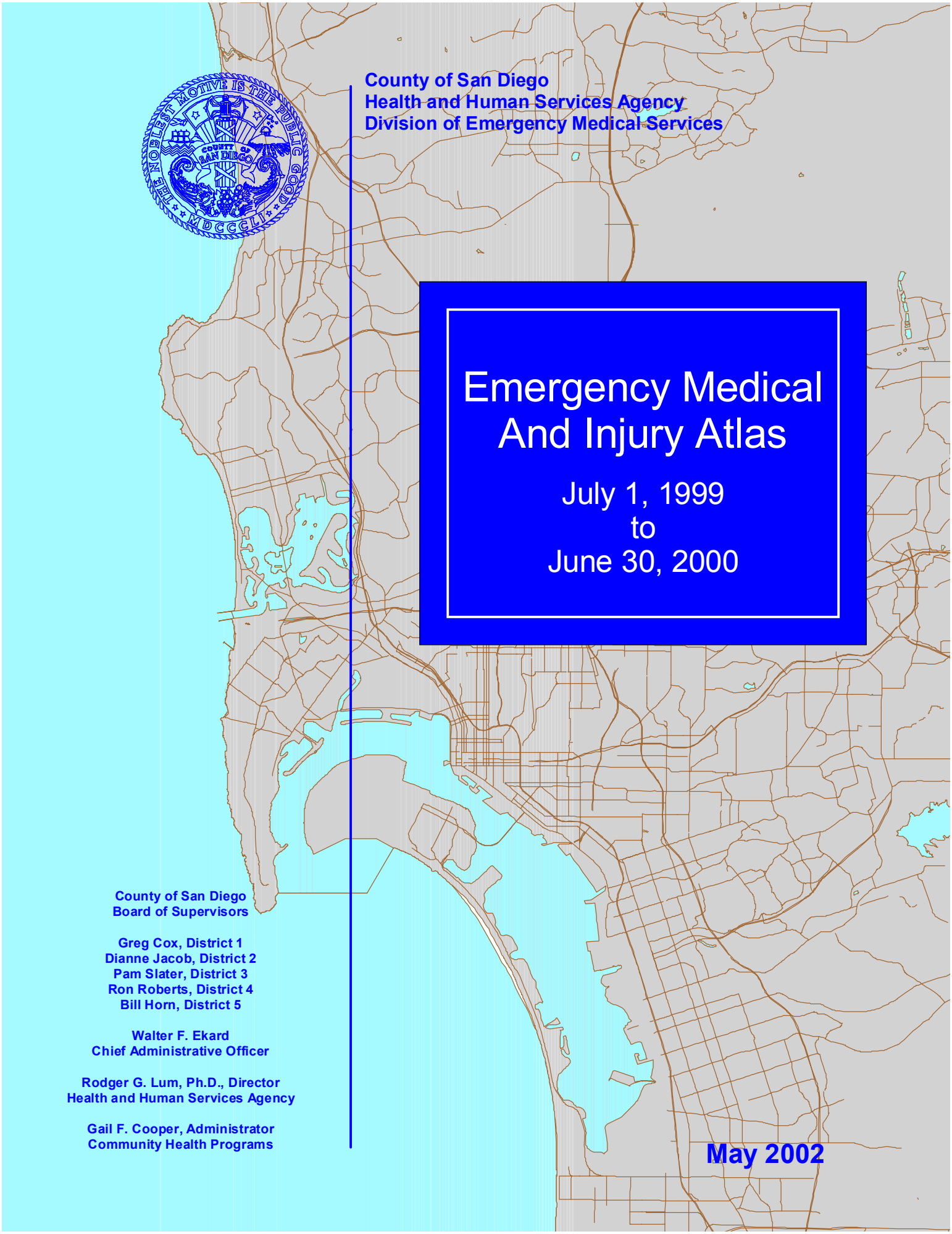

County of San Diego
Health and Human Services Agency
Division of Emergency Medical Services

Emergency Medical And Injury Atlas

July 1, 1999
to
June 30, 2000

County of San Diego
Board of Supervisors

Greg Cox, District 1
Dianne Jacob, District 2
Pam Slater, District 3
Ron Roberts, District 4
Bill Horn, District 5

Walter F. Ekard
Chief Administrative Officer

Rodger G. Lum, Ph.D., Director
Health and Human Services Agency

Gail F. Cooper, Administrator
Community Health Programs

May 2002

Emergency Medical and Injury Atlas

FY 1999/00

County of San Diego

County of San Diego
Health and Human Services Agency
Division of Emergency Medical Services
May 2002

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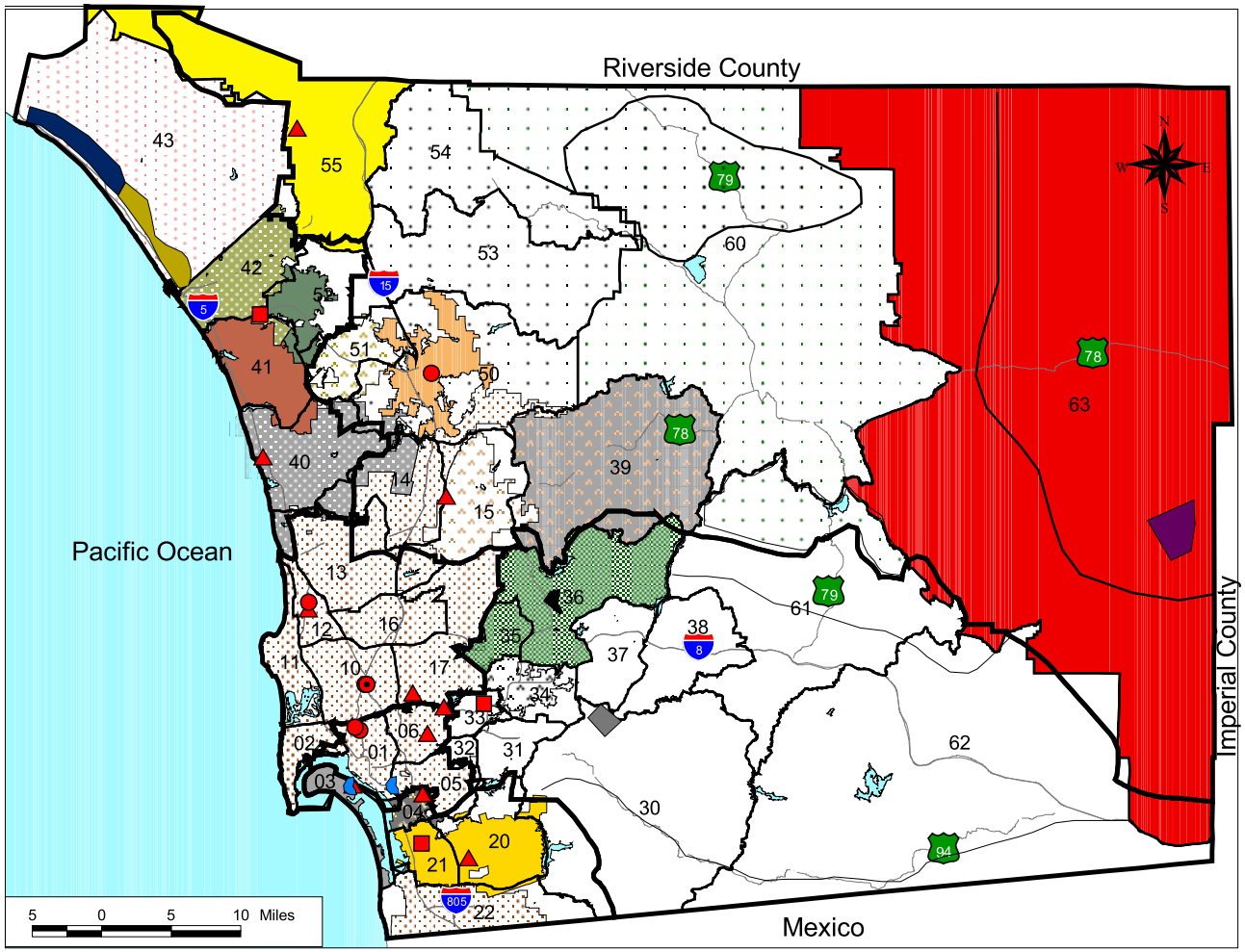
San Diego County Subregional Areas By Health Services Regions With Ambulance Service Areas and Hospital Facilities*



North Inland
14 North San Diego
15 Poway
39 Ramona
50 Escondido
51 San Marcos
53 Valley Center
54 Pauma
55 Fallbrook
60 Palomar-Julian
63 Anza Borrego Springs

North Coastal
40 San Dieguito
41 Carlsbad
42 Oceanside
43 Pendleton
52 Vista

East
30 Jamul
31 Spring Valley
32 Lemon Grove
33 La Mesa
34 El Cajon
35 Santee
36 Lakeside
37 Harbison/Crest
38 Alpine
61 Laguna Pine Valley
62 Mountain Empire

South
03 Coronado
04 National City
20 Sweetwater
21 Chula Vista
22 South Bay

Central
01 Central San Diego
05 Southeast San Diego
06 Mid-City

North Central
02 Peninsula
10 Kearny Mesa
11 Coastal
12 University
13 Del Mar - Mira Mesa
16 Miramar
17 Elliott-Navajo

* See separate page for lists of Ambulance Service Areas and Hospital Facilities

Source: Emergency Medical Services, Health and Human Services Agency, County of San Diego, February 2002.

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Ambulance Service Areas

(*= Advanced Life Support Providers)

- Desert Region (Borrego Springs Fire Department)
- Desert Region (West Shore Ambulance)
- Ramona Municipal Water District* (CDF & Fire Protection)
- North County Fire Protection District*
- Julian-Cuyamaca Fire Protection District*
- North County Rural Area (Sycuan)
- City of Escondido*
- City of Poway*
- City of San Marcos* (AMR, San Marcos)
- US Navy Ambulance (Camp Pendleton)
- City of Oceanside*
- City of Carlsbad*
- City of Vista*
- I-5 Corridor (Las Pulgas South-AMR, Balboa, CARE, Americare)
- I-5 Corridor* (Las Pulgas North-Orange County Fire)
- CSA 17* (AMR, Encinitas, Rancho Santa Fe, Del Mar, Solana Beach)
- CSA 69* (Lakeside, Santee)
- City of El Cajon*
- Sycuan Indian Reservation*
- Barona Indian Reservation*
- Grossmont Hospital District* (AMR, East County Fire)
- City of Chula Vista* (AMR)
- City of Coronado
- City of National City* (AMR)
- City of San Diego*
- US Navy (Federal Fire Department)

Hospital Facilities

▲ **- Emergency Department**

Alvarado Hospital and Medical Center
Kaiser Hospital
Villa View Community Hospital
Sharp Coronado Hospital
Sharp Chula Vista Medical Center
Scripps Memorial Hospital Encinitas
Fallbrook Hospital
Paradise Valley Hospital
Pomerado Hospital
UCSD - Thornton Hospital

● **- Trauma Center/Base Hospital Emergency Department**

Scripps Mercy Hospital
Sharp Memorial Hospital
UCSD Medical Center
Palomar Medical Center
Scripps Memorial Hospital La Jolla

■ **- Base Hospital Emergency Department**

Scripps Memorial Hospital Chula Vista
Sharp Grossmont Hospital
Tri-City Medical Center

◉ **- Trauma Center Emergency Department**

Children's Hospital and Health Center

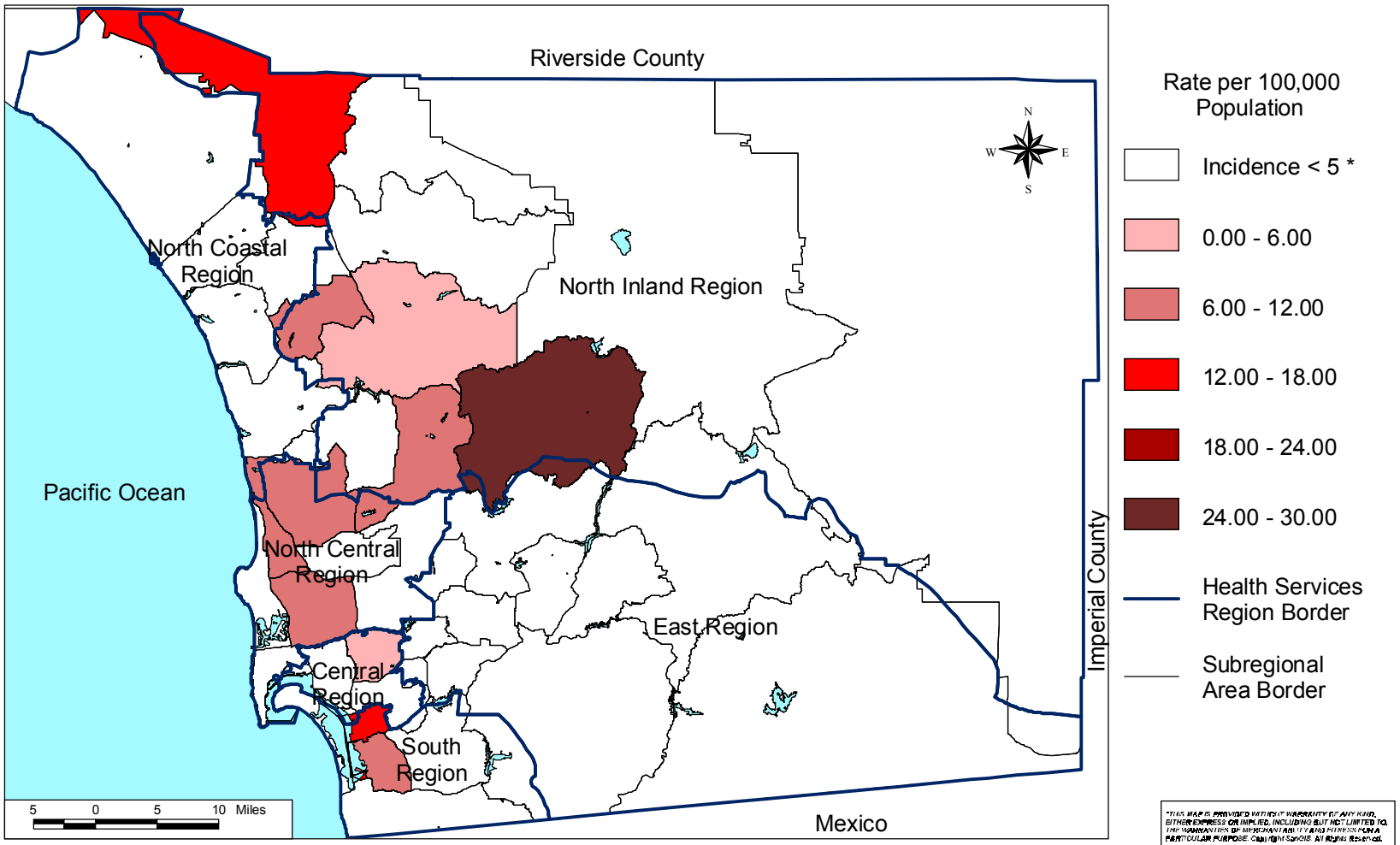
Motor Vehicle Occupant by Injury Severity by Subregional Area
County of San Diego, Fiscal Year 1999/00

	Subregional Area	SD POP	Deaths		Severe Injuries		Paramedic/EMT Response	
			#	Rate	#	Rate	#	Rate
1	Central	165,602	4	*	50	30.19	1091	658.81
2	Peninsula	64,037	2	*	7	10.93	147	229.55
3	Coronado	24,673	0	-	2	*	90	364.77
4	National City	55,205	9	16.30	21	38.04	351	635.81
5	Southeast SD	159,862	3	*	18	11.26	414	258.97
6	Mid City	160,012	5	3.12	42	26.25	794	496.21
10	Kearny Mesa	153,648	12	7.81	29	18.87	1125	732.19
11	Coastal	81,693	3	*	30	36.72	463	566.76
12	University	52,872	5	9.46	9	17.02	306	578.76
13	Del Mar-Mira Mesa	141,902	13	9.16	13	9.16	489	344.60
14	North San Diego	88,356	3	*	8	9.05	374	423.29
15	Poway	83,866	7	8.35	18	21.46	340	405.41
16	Miramar	5,916	1	*	1	*	53	895.88
17	Elliot-Navajo	95,494	1	*	12	12.57	257	269.13
20	Sweetwater	77,072	1	*	8	10.38	72	93.42
21	Chula Vista	107,385	7	6.52	42	39.11	640	595.99
22	South Bay	128,779	2	*	17	13.20	440	341.67
30	Jamul	13,339	2	*	10	74.97	150	1,124.52
31	Spring Valley	84,235	1	*	11	13.06	254	301.54
32	Lemon Grove	30,656	0	-	10	32.62	143	466.47
33	La Mesa	61,439	4	*	10	16.28	296	481.78
34	El Cajon	122,743	2	*	18	14.66	524	426.91
35	Santee	56,869	2	*	8	14.07	257	451.92
36	Lakeside	56,567	2	*	15	26.52	271	479.08
37	Harbison-Crest	15,865	3	*	11	69.34	165	1,040.03
38	Alpine	13,878	4	*	5	36.03	125	900.71
39	Ramona	34,663	10	28.85	22	63.47	170	490.44
40	San Dieguito	89,322	2	*	15	16.79	332	371.69
41	Carlsbad	98,175	3	*	17	17.32	347	353.45
42	Oceanside	150,354	4	*	43	28.60	1042	693.03
43	Pendleton	38,784	3	*	8	20.63	131	337.77
50	Escondido	143,964	8	5.56	54	37.51	893	620.29
51	San Marcos	67,910	6	8.84	19	27.98	658	968.93
52	Vista	92,895	3	*	31	33.37	617	664.19
53	Valley Center	20,158	2	*	17	84.33	107	530.81
54	Pauma	6,046	2	*	8	132.32	63	1,042.01
55	Fallbrook	44,914	8	17.81	30	66.79	323	719.15
60	Palomar-Julian	6,462	1	*	4	*	37	572.58
61	Laguna-Pine Valley	5,682	0	-	2	*	19	334.39
62	Mountain Empire	6,420	4	*	13	202.49	120	1,869.16
63	Anza Borego Springs	3,754	4	*	10	266.38	74	1,971.23
	UNKNOWN	---	16	-	880	-	527	-
	OVERALL	**2,911,468**	**174**	**5.98**	**1,598**	**54.89**	**15091**	**518.33**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Medical Examiner's Data, Trauma Registry, and Prehospital Patient Records; Population Estimates: San Diego Association of Governments (SANDAG).

** Rates not calculated on less than five incidents.*

Rates of Motor Vehicle Occupant Injury Resulting in Death
By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Medical Examiner's Data, FY 99/00, Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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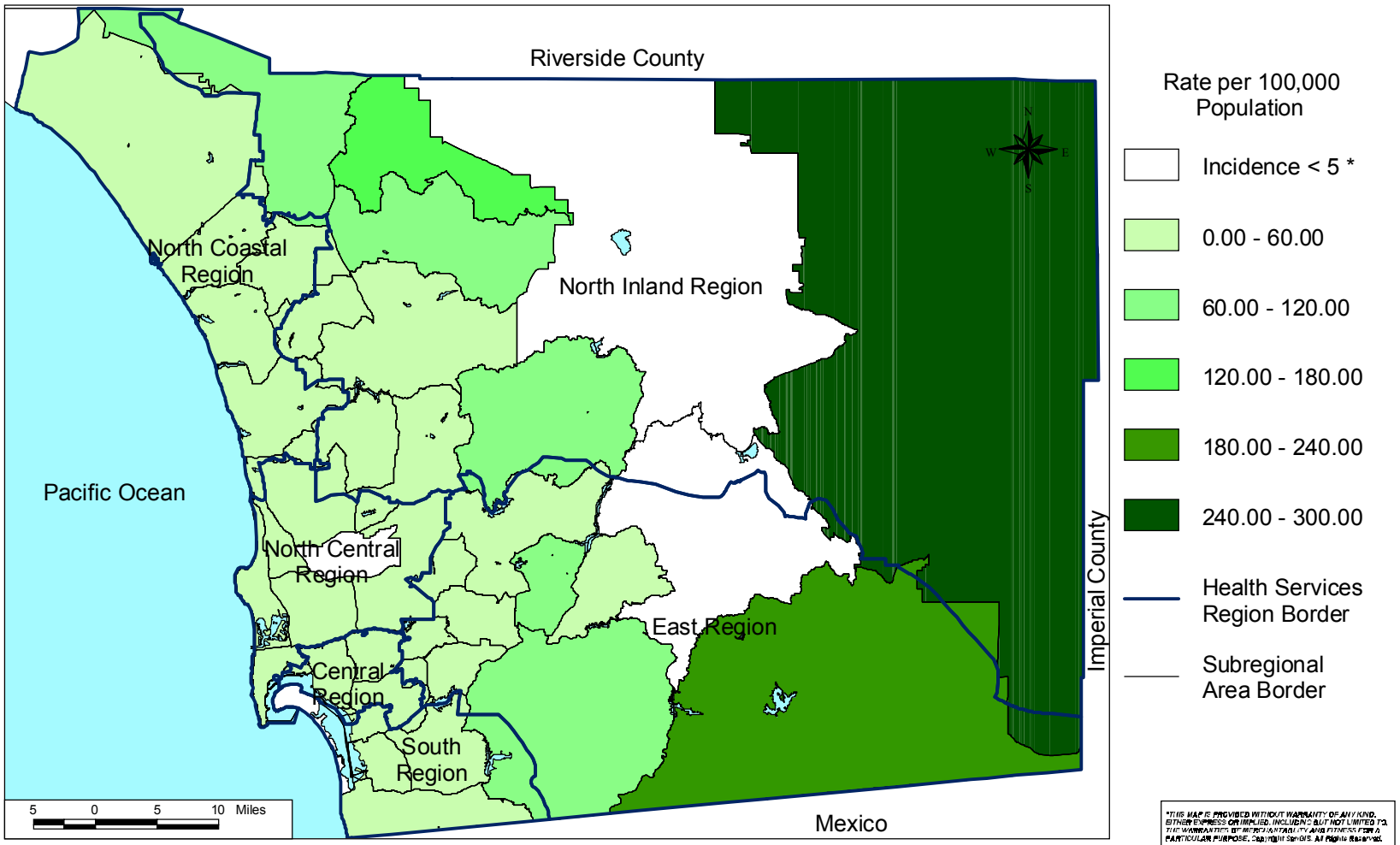
Rates of Motor Vehicle Occupant Injury Resulting in Severe Injury
By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Trauma Registry, FY 99/00; Population Estimates: San Diego Association of Governments (SANDAG), 2000.
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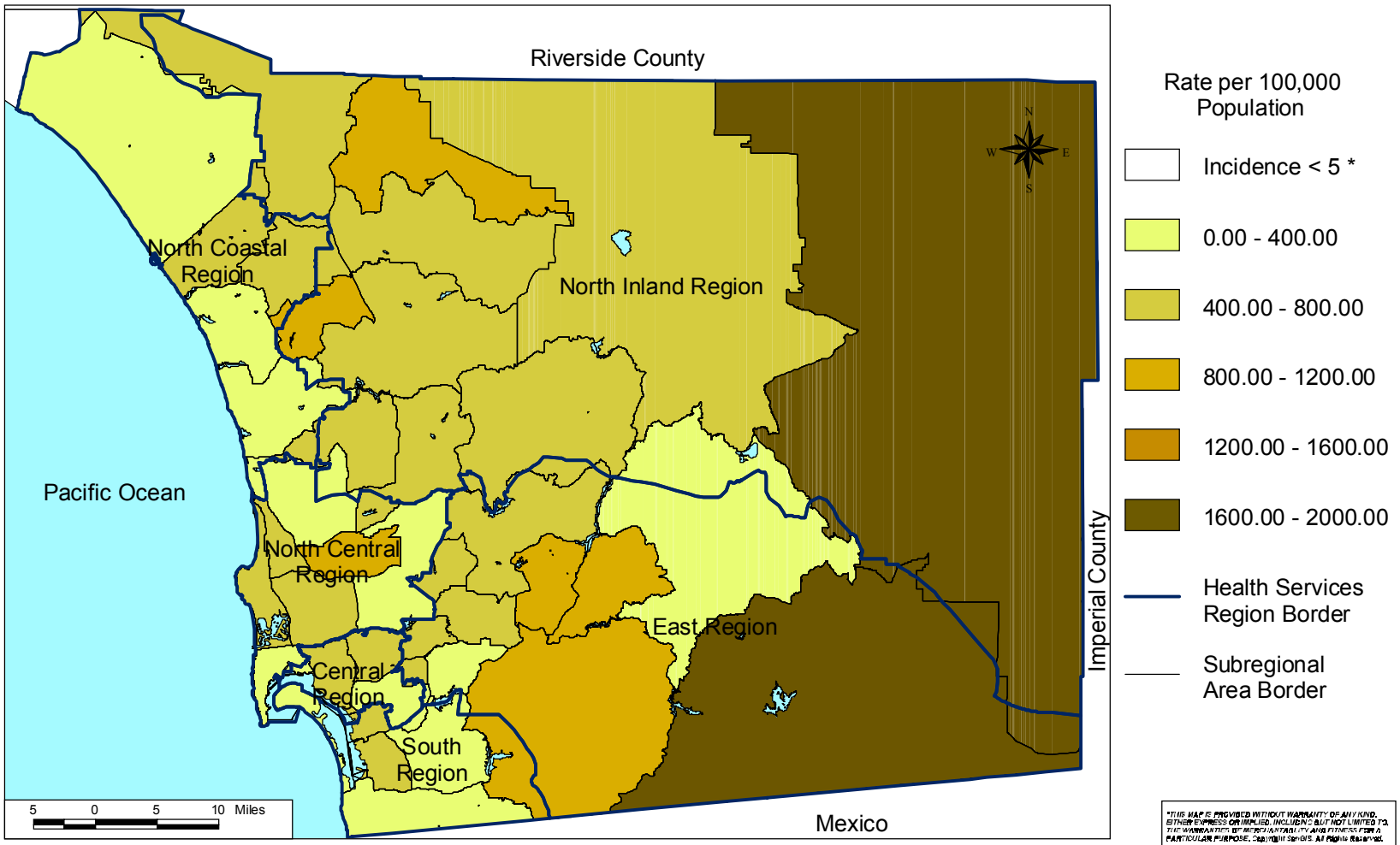
Rates of Motor Vehicle Occupant Injury Resulting in Paramedic/EMT Response By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Prehospital Patient Records, FY 99/00, Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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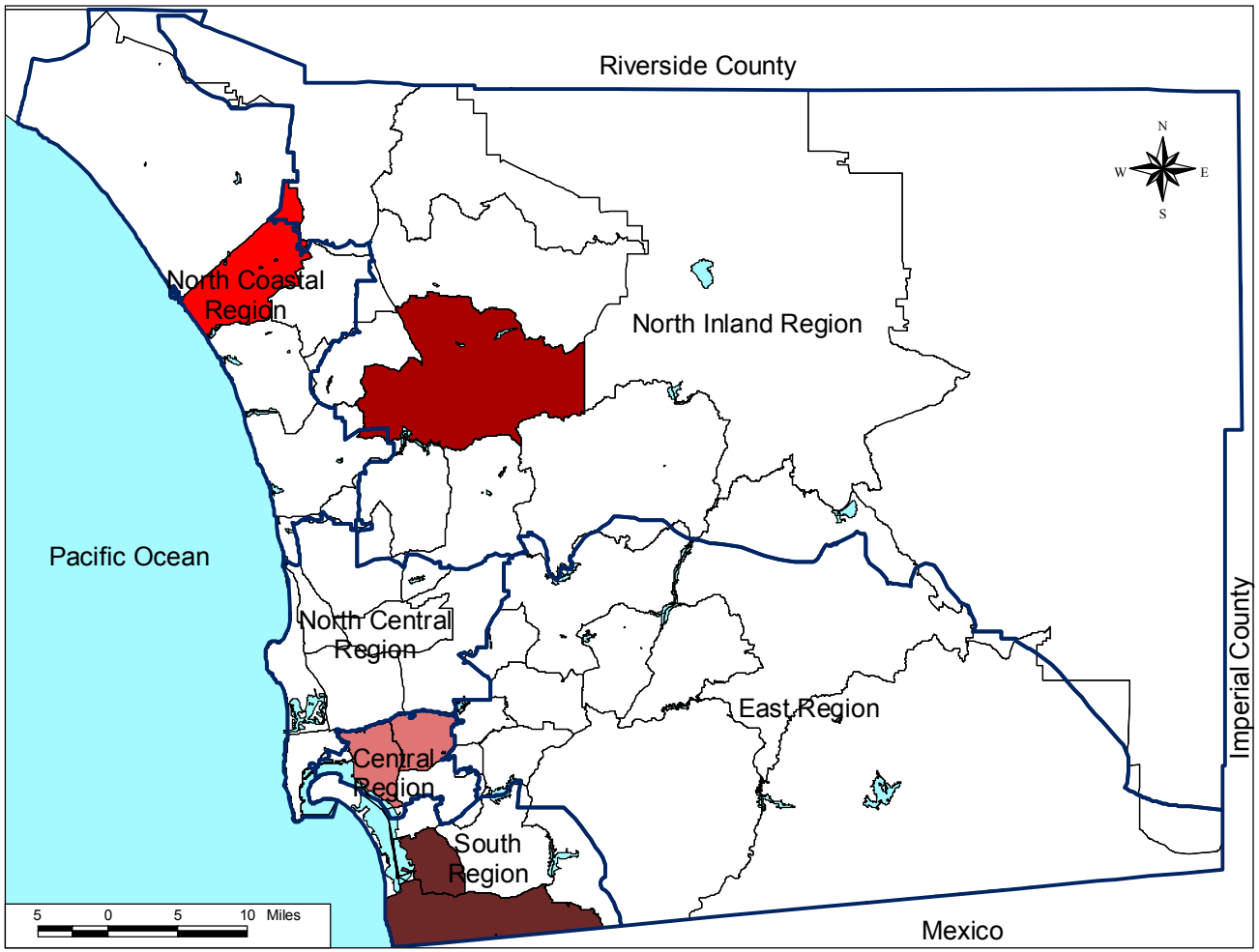
Pedestrian Struck by Injury Severity by Subregional Area
County of San Diego, Fiscal Year 1999/00

	Subregional Area	SD POP	Deaths		Severe Injuries		Paramedic/EMT Response	
			#	Rate	#	Rate	#	Rate
1	Central	165,602	5	3.02	22	13.28	102	61.59
2	Peninsula	64,037	1	*	2	*	18	28.11
3	Coronado	24,673	0	-	0	-	7	28.37
4	National City	55,205	1	*	6	10.87	30	54.34
5	Southeast SD	159,862	4	*	18	11.26	61	38.16
6	Mid City	160,012	5	3.12	16	10.00	104	65.00
10	Kearny Mesa	153,648	4	*	3	*	72	46.86
11	Coastal	81,693	1	*	14	17.14	50	61.20
12	University	52,872	1	*	2	*	15	28.37
13	Del Mar-Mira Mesa	141,902	3	*	7	4.93	41	28.89
14	North San Diego	88,356	0	-	1	*	9	10.19
15	Poway	83,866	2	*	1	*	22	26.23
16	Miramar	5,916	0	-	0	-	0	-
17	Elliot-Navajo	95,494	2	*	3	*	12	12.57
20	Sweetwater	77,072	0	-	2	*	3	*
21	Chula Vista	107,385	7	6.52	14	13.04	66	61.46
22	South Bay	128,779	10	7.77	13	10.09	64	49.70
30	Jamul	13,339	0	-	0	-	1	*
31	Spring Valley	84,235	3	*	7	8.31	16	18.99
32	Lemon Grove	30,656	1	*	3	*	12	39.14
33	La Mesa	61,439	1	*	1	*	15	24.41
34	El Cajon	122,743	2	*	6	4.89	42	34.22
35	Santee	56,869	2	*	6	10.55	19	33.41
36	Lakeside	56,567	1	*	2	*	11	19.45
37	Harbison-Crest	15,865	2	*	5	31.52	15	94.55
38	Alpine	13,878	0	-	2	*	4	*
39	Ramona	34,663	0	-	1	*	7	20.19
40	San Dieguito	89,322	1	*	4	*	15	16.79
41	Carlsbad	98,175	3	*	1	*	23	23.43
42	Oceanside	150,354	7	4.66	18	11.97	101	67.17
43	Pendleton	38,784	0	-	1	*	9	23.21
50	Escondido	143,964	8	5.56	7	4.86	67	46.54
51	San Marcos	67,910	0	-	1	*	13	19.14
52	Vista	92,895	1	*	7	7.54	42	45.21
53	Valley Center	20,158	0	-	1	*	1	*
54	Pauma	6,046	1	*	0	-	3	*
55	Fallbrook	44,914	1	*	4	*	17	37.85
60	Palomar-Julian	6,462	0	-	0	-	2	*
61	Laguna-Pine Valley	5,682	0	-	0	-	0	-
62	Mountain Empire	6,420	0	-	0	-	1	*
63	Anza Borego Springs	3,754	0	-	0	-	0	-
	UNKNOWN	---	5	-	155	-	33	-
	OVERALL	**2,911,468**	**85**	**2.92**	**356**	**12.23**	**1145**	**39.33**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Medical Examiner's Data, Trauma Registry, and Prehospital Patient Records; Population Estimates: San Diego Association of Governments (SANDAG).

**Rates not calculated on less than five incidents.*

Rates of Pedestrian Injury Resulting in Death
By Subregional Area - FY 99/00



Rate per 100,000 Population

- Incidence < 5 *
- 0.00 - 1.60
- 1.60 - 3.20
- 3.20 - 4.80
- 4.80 - 6.40
- 6.40 - 8.00
- Health Services Region Border
- Subregional Area Border

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Medical Examiner's Data, FY 99/00; Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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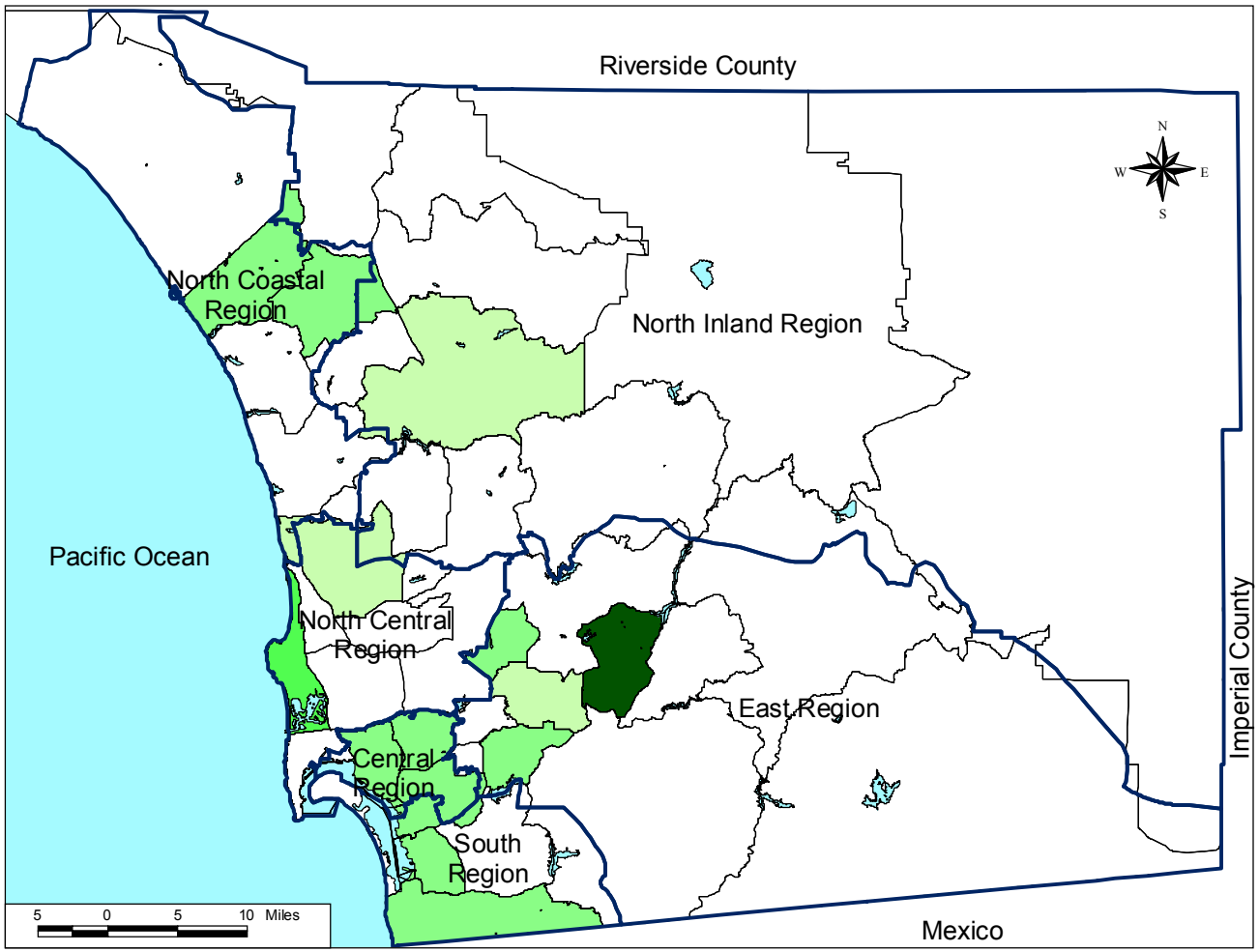
Rates of Pedestrian Injury Resulting in Severe Injury By Subregional Area - FY 99/00



Rate per 100,000 Population

- Incidence < 5 *
- 0.00 - 7.00
- 7.00 -14.00
- 14.00 - 21.00
- 21.00 - 28.00
- 28.00 - 35.00
- Health Services Region Border
- Subregional Area Border

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Trauma Registry, FY 99/00; Population Estimates: San Diego Association of Governments (SANDAG), 2000.
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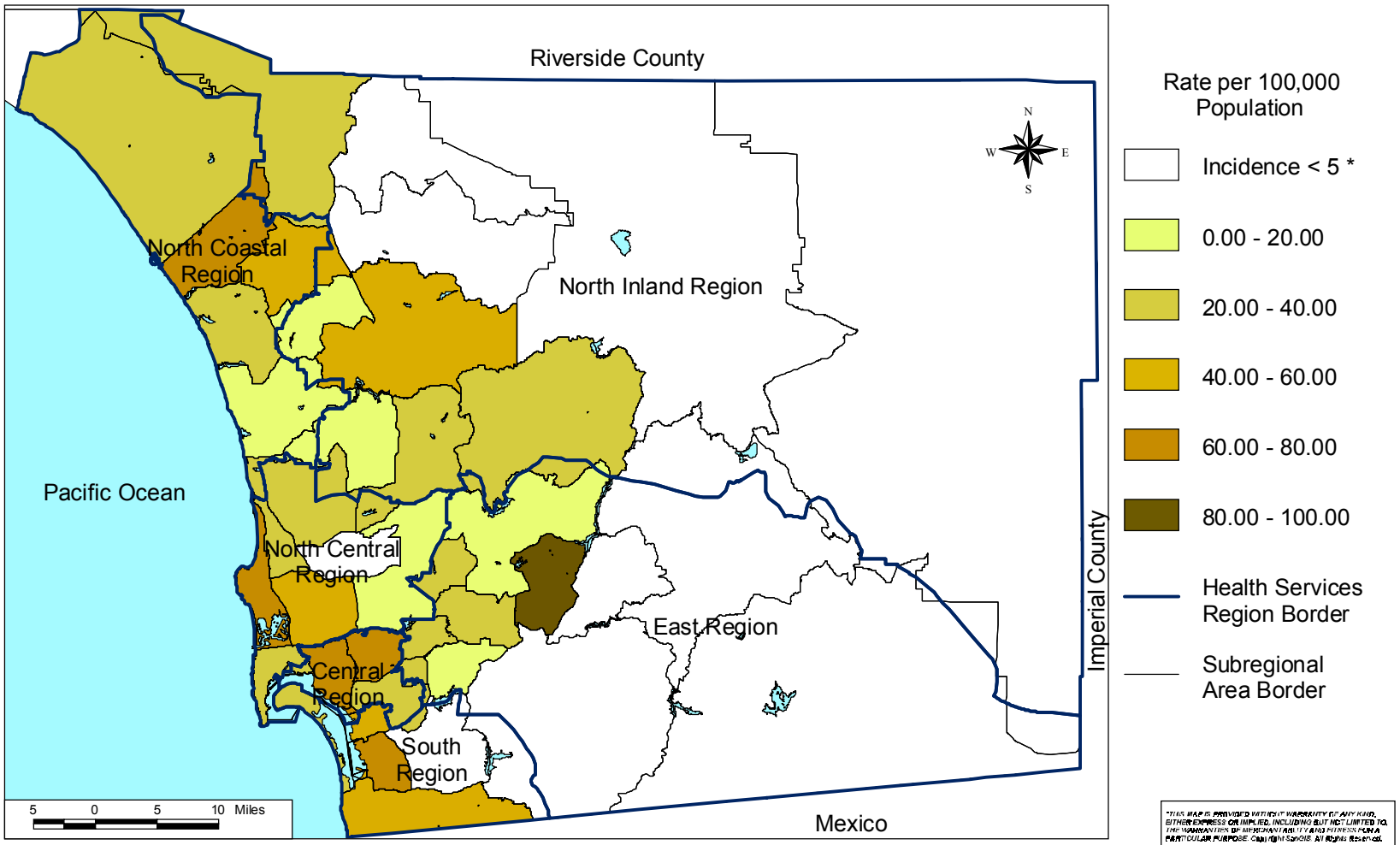
Rates of Pedestrian Injury Resulting in Paramedic/EMT Response By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Prehospital Patient Records, FY 99/00, Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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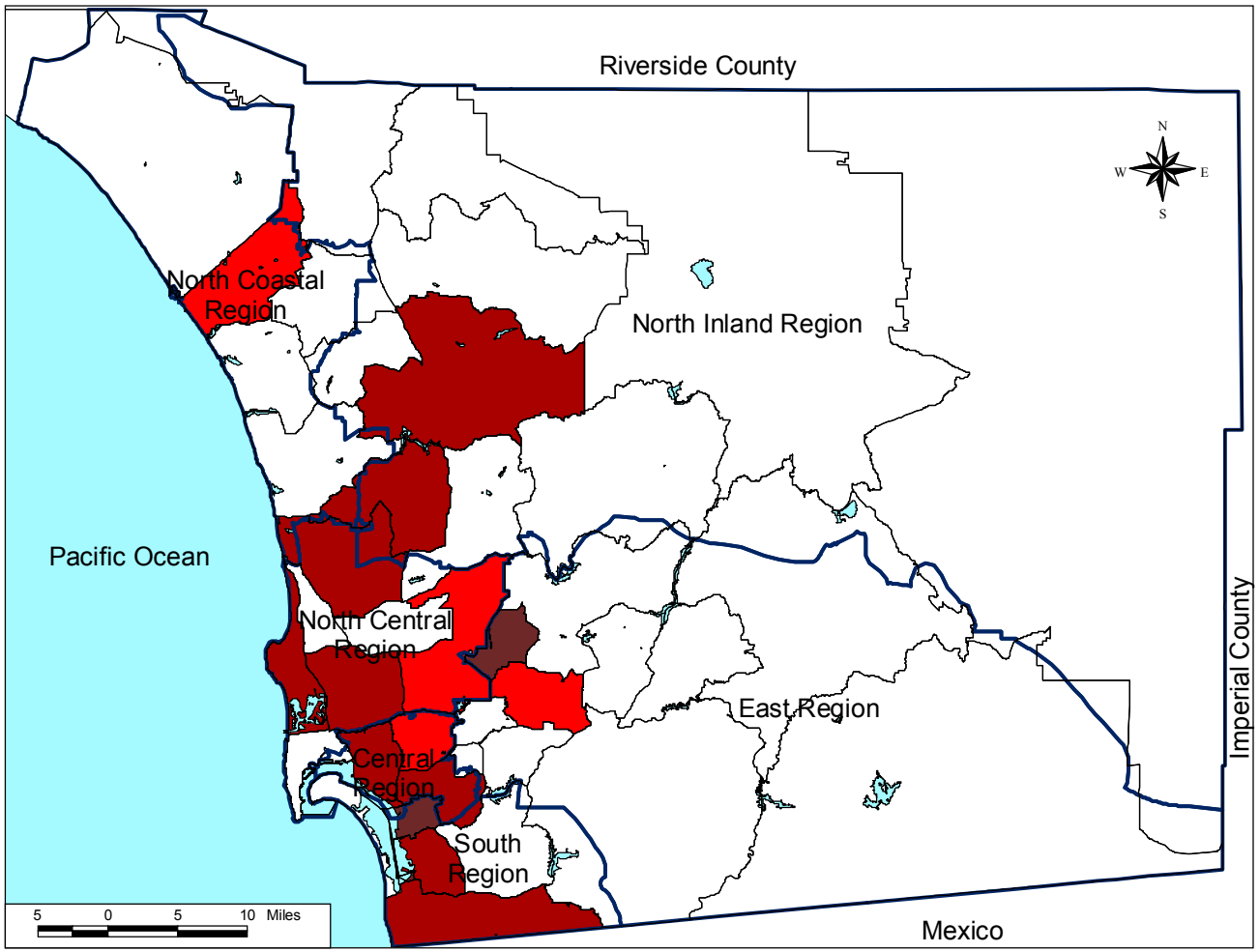
Firearm by Injury Severity by Subregional Area
County of San Diego, Fiscal Year 1999/00

	Subregional Area	SD POP	Deaths		Severe Injuries		Paramedic/EMT Response	
			#	Rate	#	Rate	#	Rate
1	Central	165,602	12	7.25	7	4.23	24	14.49
2	Peninsula	64,037	3	*	0	-	2	*
3	Coronado	24,673	1	*	0	-	1	*
4	National City	55,205	5	9.06	2	*	17	30.79
5	Southeast SD	159,862	12	7.51	9	5.63	32	20.02
6	Mid City	160,012	9	5.62	5	3.12	23	14.37
10	Kearny Mesa	153,648	11	7.16	2	*	14	9.11
11	Coastal	81,693	6	7.34	0	-	8	9.79
12	University	52,872	3	*	0	-	1	*
13	Del Mar-Mira Mesa	141,902	10	7.05	0	-	6	4.23
14	North San Diego	88,356	6	6.79	1	*	5	5.66
15	Poway	83,866	3	*	0	-	6	7.15
16	Miramar	5,916	0	-	0	-	0	-
17	Elliot-Navajo	95,494	6	6.28	0	-	1	*
20	Sweetwater	77,072	4	*	0	-	1	*
21	Chula Vista	107,385	9	8.38	3	*	25	23.28
22	South Bay	128,779	10	7.77	3	*	26	20.19
30	Jamul	13,339	3	*	0	-	3	*
31	Spring Valley	84,235	4	*	1	*	15	17.81
32	Lemon Grove	30,656	0	-	0	-	5	16.31
33	La Mesa	61,439	4	*	0	-	6	9.77
34	El Cajon	122,743	7	5.70	1	*	13	10.59
35	Santee	56,869	6	10.55	0	-	8	14.07
36	Lakeside	56,567	3	*	0	-	12	21.21
37	Harbison-Crest	15,865	4	*	0	-	4	*
38	Alpine	13,878	2	*	1	*	8	57.65
39	Ramona	34,663	2	*	0	-	3	*
40	San Dieguito	89,322	2	*	0	-	12	13.43
41	Carlsbad	98,175	3	*	0	-	8	8.15
42	Oceanside	150,354	9	5.99	5	3.33	52	34.59
43	Pendleton	38,784	1	*	0	-	2	*
50	Escondido	143,964	10	6.95	5	3.47	15	10.42
51	San Marcos	67,910	3	*	1	*	12	17.67
52	Vista	92,895	4	*	1	*	20	21.53
53	Valley Center	20,158	2	*	0	-	1	*
54	Pauma	6,046	0	-	0	-	2	*
55	Fallbrook	44,914	3	*	1	*	9	20.04
60	Palomar-Julian	6,462	1	*	0	-	0	-
61	Laguna-Pine Valley	5,682	1	*	0	-	0	-
62	Mountain Empire	6,420	3	*	0	-	10	155.76
63	Anza Borego Springs	3,754	2	*	0	-	1	*
	UNKNOWN	---	5	-	32	-	17	-
	OVERALL	**2,911,468**	**194**	**6.66**	**80**	**2.75**	**430**	**14.77**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Medical Examiner's Data, Trauma Registry, and Prehospital Patient Records; Population Estimates: San Diego Association of Governments (SANDAG).

**Rates not calculated on less than five incidents.*

Rates of Firearm Injury Resulting in Death
By Subregional Area - FY 99/00



Rate per 100,000 Population

- Incidence < 5 *
- 0.00 - 2.20
- 2.20 - 4.40
- 4.40 - 6.60
- 6.60 - 8.80
- 8.80 - 11.00
- Health Services Region Border
- Subregional Area Border

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Medical Examiner's Data, FY 99/00; Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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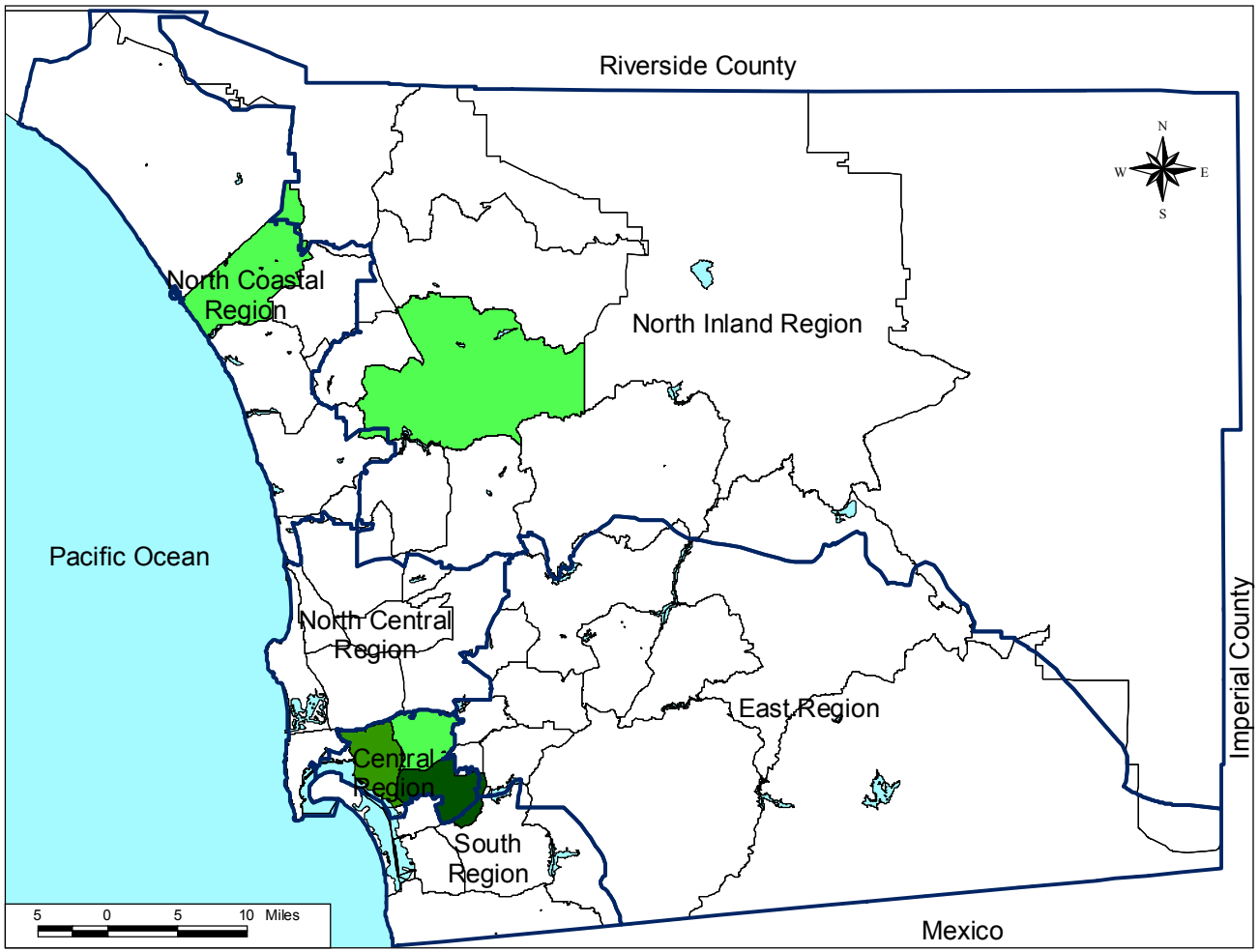
Rates of Firearm Injury Resulting in Severe Injury
By Subregional Area - FY 99/00



Rate per 100,000 Population

- Incidence < 5 *
- 0.00 - 1.20
- 1.20 - 2.40
- 2.40 - 3.60
- 3.60 - 4.80
- 4.80 - 6.00
- Health Services Region Border
- Subregional Area Border

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Trauma Registry, FY 99/00, Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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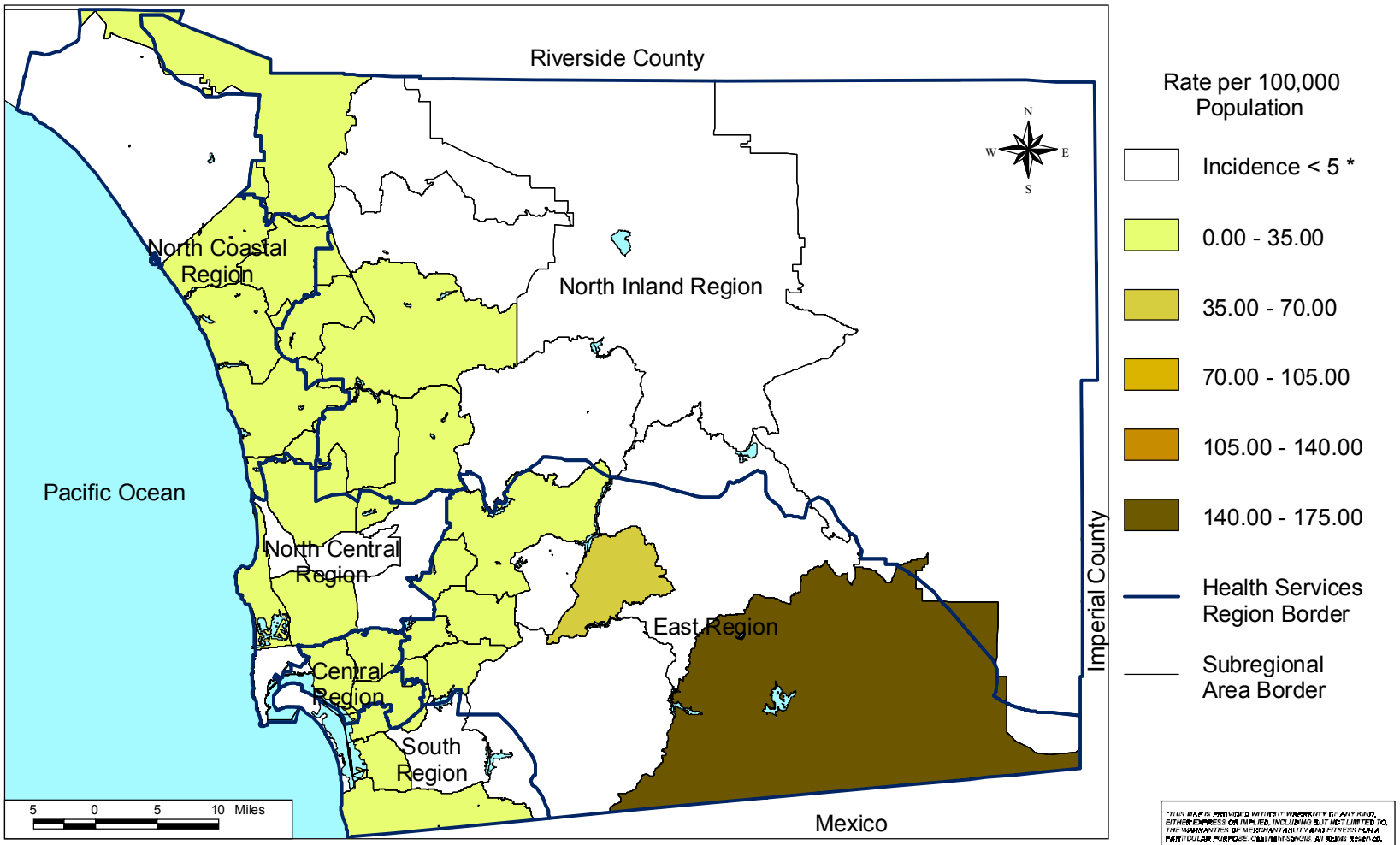
Rates of Firearm Injury Resulting in Paramedic/EMT Response By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Prehospital Patient Records, FY 99/00, Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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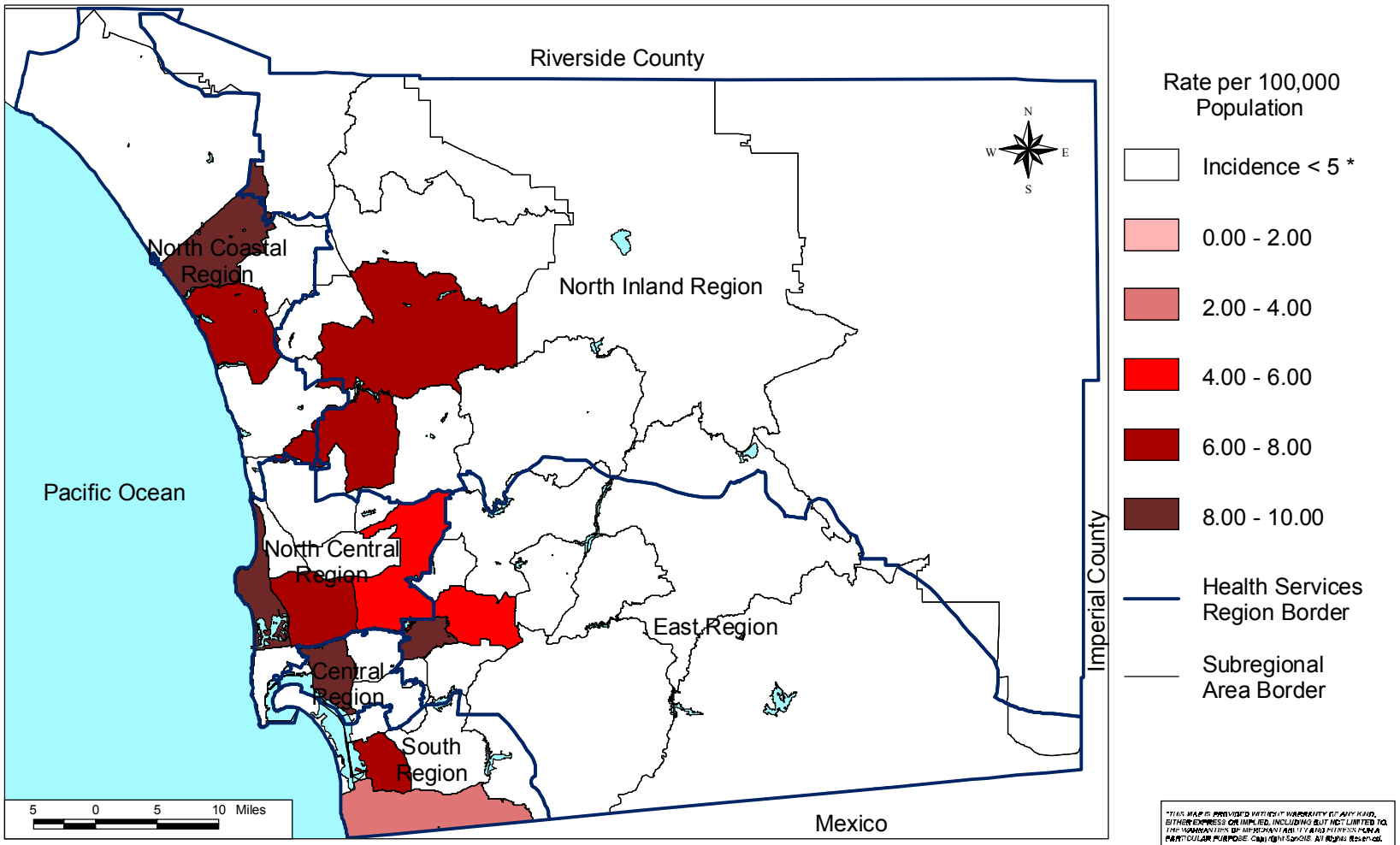
Falls by Injury Severity by Subregional Area
County of San Diego, Fiscal Year 1999/00

	Subregional Area	SD POP	Deaths		Severe Injuries		Paramedic/EMT Response	
			#	Rate	#	Rate	#	Rate
1	Central	165,602	14	8.45	83	50.12	1326	800.71
2	Peninsula	64,037	1	*	15	23.42	265	413.82
3	Coronado	24,673	1	*	7	28.37	235	952.46
4	National City	55,205	2	*	8	14.49	198	358.66
5	Southeast SD	159,862	3	*	24	15.01	355	222.07
6	Mid City	160,012	3	*	55	34.37	666	416.22
10	Kearny Mesa	153,648	11	7.16	27	17.57	820	533.69
11	Coastal	81,693	7	8.57	36	44.07	560	685.49
12	University	52,872	1	*	4	*	191	361.25
13	Del Mar-Mira Mesa	141,902	2	*	23	16.21	293	206.48
14	North San Diego	88,356	6	6.79	20	22.64	406	459.50
15	Poway	83,866	4	*	8	9.54	249	296.90
16	Miramar	5,916	1	*	0	-	5	84.52
17	Elliot-Navajo	95,494	5	5.24	4	*	286	299.50
20	Sweetwater	77,072	1	*	3	*	65	84.34
21	Chula Vista	107,385	7	6.52	21	19.56	507	472.13
22	South Bay	128,779	5	3.88	24	18.64	402	312.16
30	Jamul	13,339	1	*	1	*	62	464.80
31	Spring Valley	84,235	3	*	3	*	236	280.17
32	Lemon Grove	30,656	3	*	6	19.57	169	551.28
33	La Mesa	61,439	5	8.14	13	21.16	533	867.53
34	El Cajon	122,743	5	4.07	14	11.41	681	554.82
35	Santee	56,869	1	*	2	*	229	402.68
36	Lakeside	56,567	1	*	3	*	211	373.01
37	Harbison-Crest	15,865	2	*	5	31.52	184	1,159.79
38	Alpine	13,878	1	*	1	*	173	1,246.58
39	Ramona	34,663	2	*	10	28.85	105	302.92
40	San Dieguito	89,322	1	*	17	19.03	335	375.05
41	Carlsbad	98,175	6	6.11	11	11.20	354	360.58
42	Oceanside	150,354	14	9.31	31	20.62	1108	736.93
43	Pendleton	38,784	1	*	5	12.89	104	268.15
50	Escondido	143,964	9	6.25	46	31.95	994	690.45
51	San Marcos	67,910	3	*	15	22.09	585	861.43
52	Vista	92,895	3	*	20	21.53	654	704.02
53	Valley Center	20,158	1	*	6	29.76	53	262.92
54	Pauma	6,046	0	-	0	-	21	347.34
55	Fallbrook	44,914	2	*	13	28.94	255	567.75
60	Palomar-Julian	6,462	0	-	3	*	20	309.50
61	Laguna-Pine Valley	5,682	0	-	0	-	18	316.79
62	Mountain Empire	6,420	0	-	3	*	85	1,323.99
63	Anza Borego Springs	3,754	0	-	3	*	79	2,104.42
	UNKNOWN	---	17	---	423	---	276	---
	OVERALL	**2,911,468**	**155**	**5.32**	**1,016**	**34.90**	**14353**	**492.98**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Medical Examiner's Data, Trauma Registry, and Prehospital Patient Records; Population Estimates: San Diego Association of Governments (SANDAG).

**Rates not calculated on less than five incidents.*

Rates of Fall Injury Resulting in Death
By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Medical Examiner's Data, FY 99/00; Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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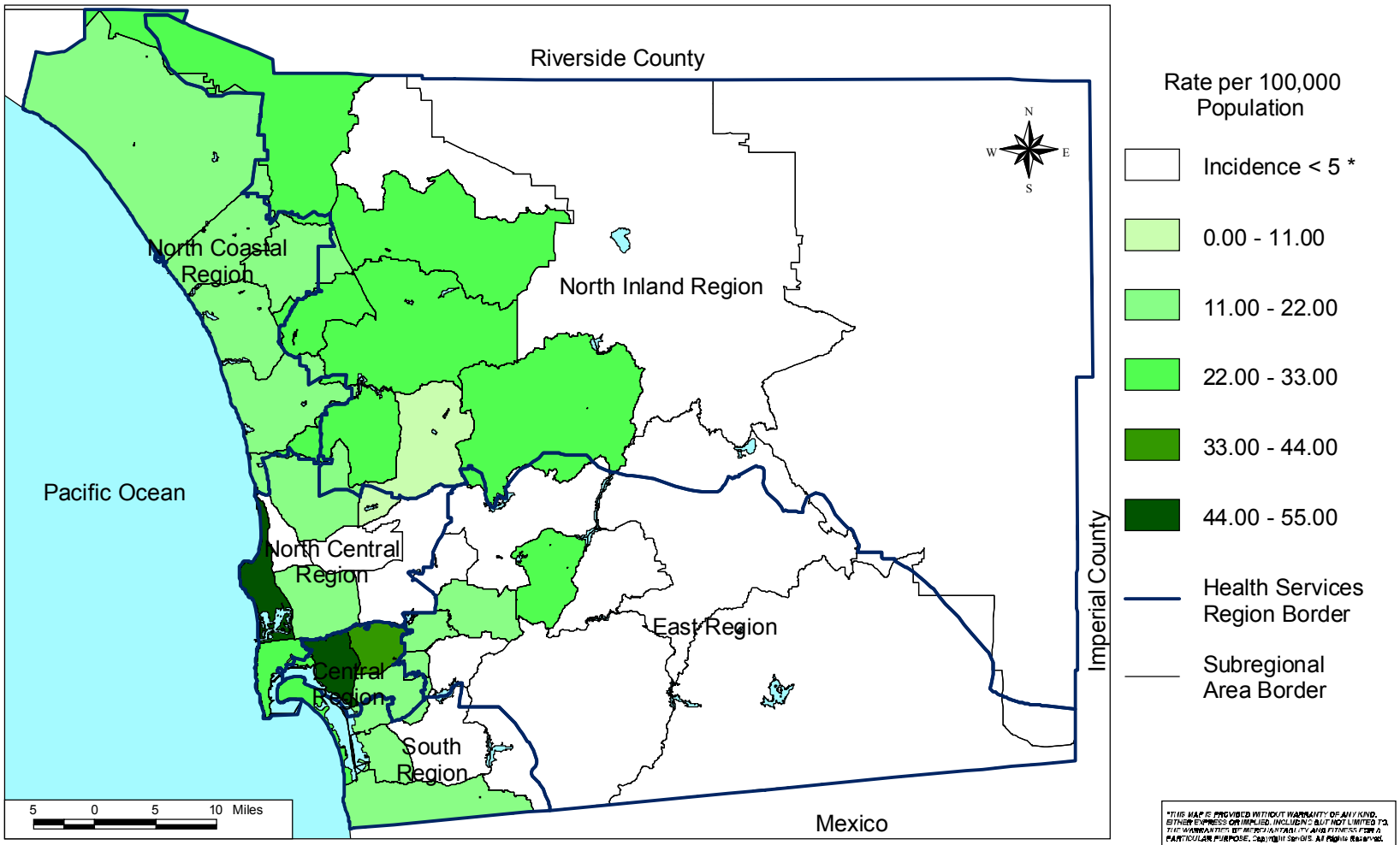
Rates of Fall Injury Resulting in Severe Injury
By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Trauma Registry, FY 99/00, Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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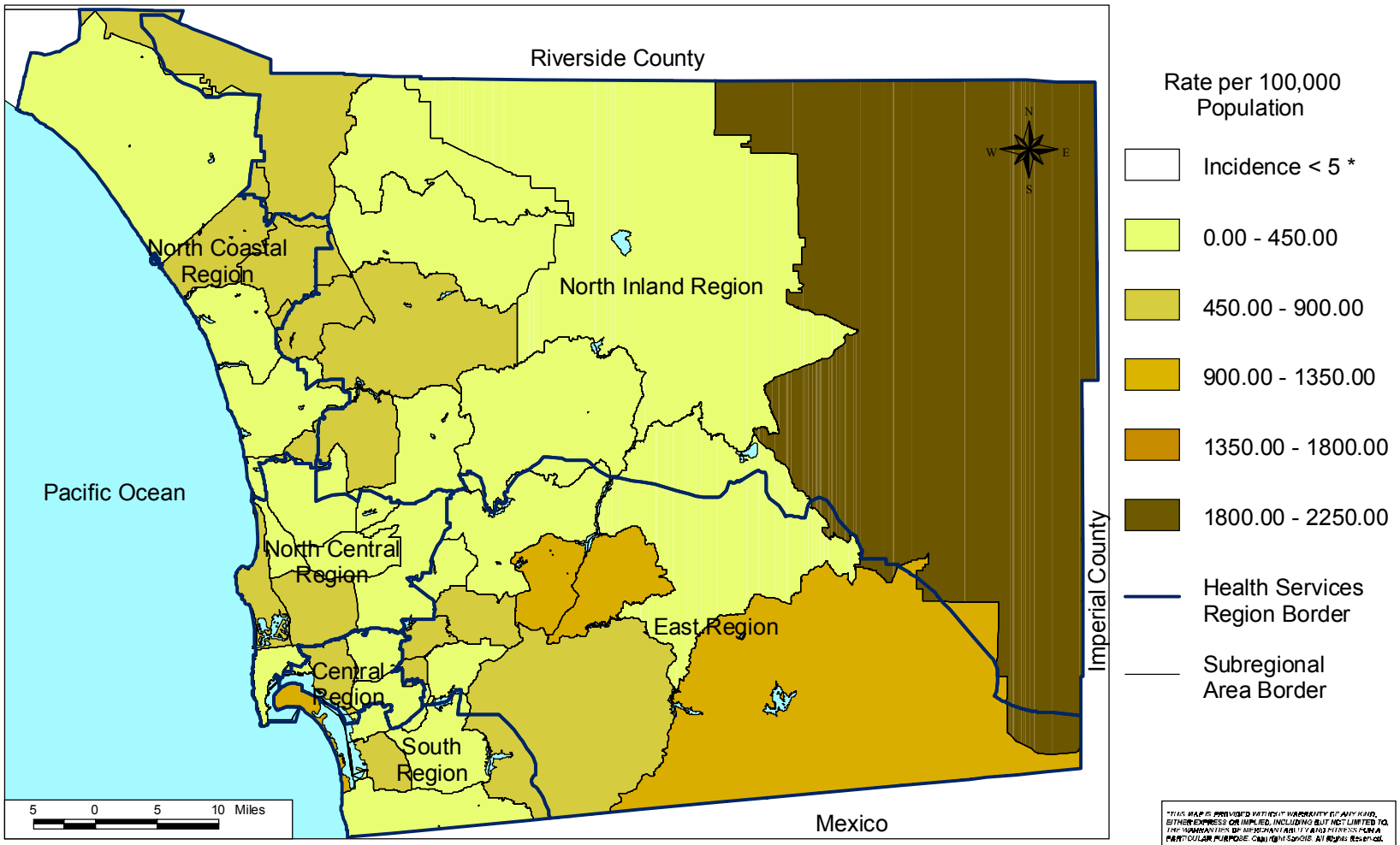
Rates of Fall Injury Resulting in Paramedic/EMT Response By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Prehospital Patient Records, FY 99/00, Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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Cut/Pierce by Injury Severity by Subregional Area
County of San Diego, Fiscal Year 1999/00

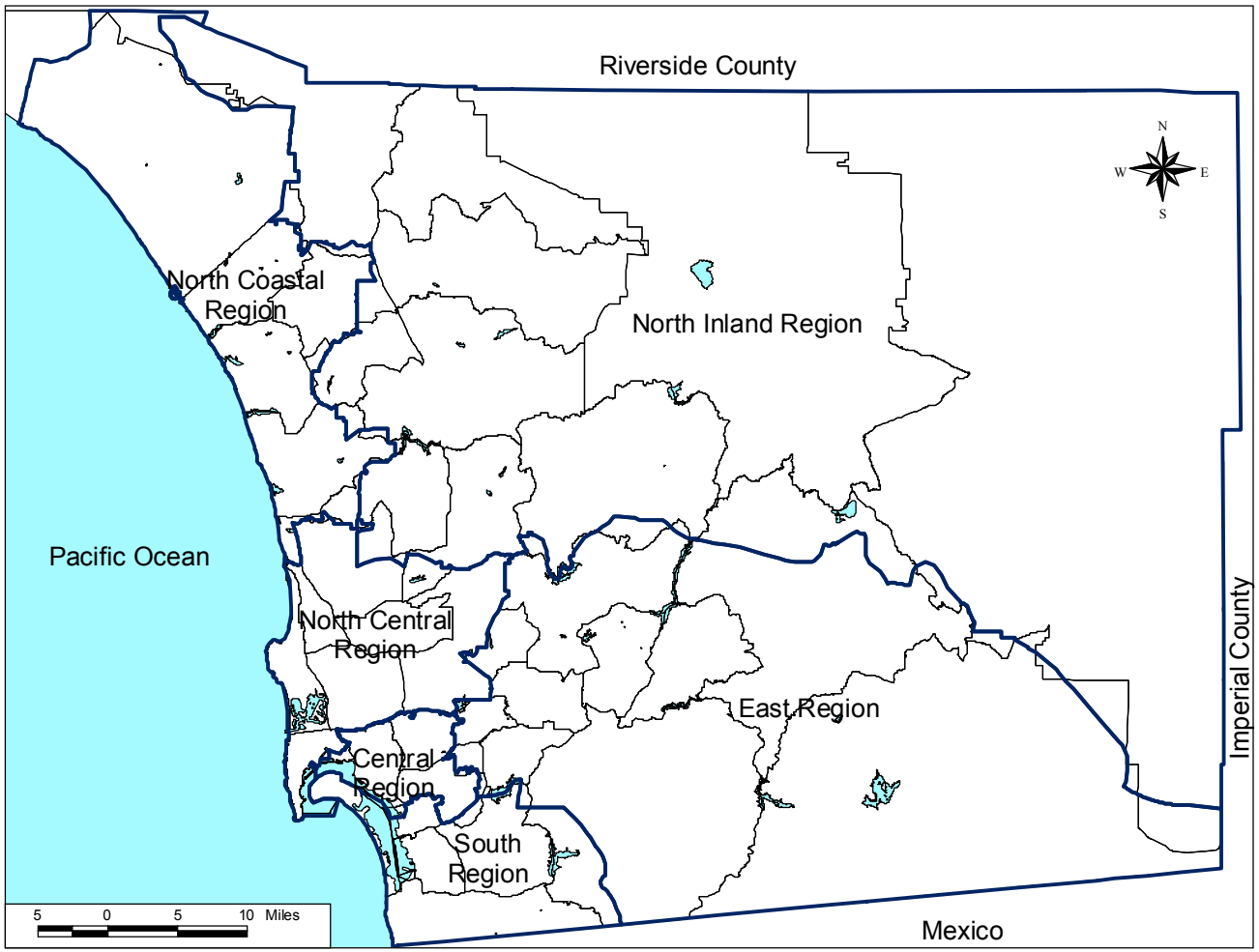
	Subregional Area	SD POP	Deaths**		Severe Injuries		Paramedic/EMT Response	
			#	Rate	#	Rate	#	Rate
1	Central	165,602	4	*	14	8.45	165	99.64
2	Peninsula	64,037	1	*	1	*	41	64.03
3	Coronado	24,673	0	-	2	*	22	89.17
4	National City	55,205	2	*	7	12.68	40	72.46
5	Southeast SD	159,862	2	*	8	5.00	75	46.92
6	Mid City	160,012	1	*	19	11.87	131	81.87
10	Kearny Mesa	153,648	1	*	1	*	57	37.10
11	Coastal	81,693	2	*	3	*	61	74.67
12	University	52,872	0	-	3	*	22	41.61
13	Del Mar-Mira Mesa	141,902	2	*	1	*	39	27.48
14	North San Diego	88,356	3	*	2	*	31	35.09
15	Poway	83,866	0	-	0	-	28	33.39
16	Miramar	5,916	0	-	0	-	1	*
17	Elliot-Navajo	95,494	2	*	0	-	28	29.32
20	Sweetwater	77,072	0	-	0	-	6	7.78
21	Chula Vista	107,385	0	-	2	*	82	76.36
22	South Bay	128,779	0	-	9	6.99	99	76.88
30	Jamul	13,339	0	-	2	*	7	52.48
31	Spring Valley	84,235	0	-	2	*	30	35.61
32	Lemon Grove	30,656	0	-	2	*	24	78.29
33	La Mesa	61,439	0	-	2	*	31	50.46
34	El Cajon	122,743	0	-	2	*	69	56.22
35	Santee	56,869	0	-	0	-	23	40.44
36	Lakeside	56,567	1	*	0	-	32	56.57
37	Harbison-Crest	15,865	1	*	1	*	23	144.97
38	Alpine	13,878	0	-	0	-	25	180.14
39	Ramona	34,663	0	-	0	-	9	25.96
40	San Dieguito	89,322		-	0	-	28	31.35
41	Carlsbad	98,175	0	-	3	*	37	37.69
42	Oceanside	150,354	0	-	11	7.32	121	80.48
43	Pendleton	38,784	0	-	0	-	23	59.30
50	Escondido	143,964	2	*	17	11.81	98	68.07
51	San Marcos	67,910	0	-	0	-	57	83.93
52	Vista	92,895	2	*	4	*	89	95.81
53	Valley Center	20,158	0	-	3	*	13	64.49
54	Pauma	6,046	0	-	0	-	1	*
55	Fallbrook	44,914	0	-	3	*	21	46.76
60	Palomar-Julian	6,462	0	-	0	-	10	154.75
61	Laguna-Pine Valley	5,682	0	-	0	-	0	-
62	Mountain Empire	6,420	0	-	0	-	12	186.92
63	Anza Borego Springs	3,754	0	-	0	-	14	372.94
	UNKNOWN	---	3	-	106	-	35	-
	OVERALL	**2,911,468**	**30**	**1.03**	**230**	**7.90**	**1760**	**60.45**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Medical Examiner's Data, Trauma Registry, and Prehospital Patient Records; Population Estimates: San Diego Association of Governments (SANDAG).

**Rates not calculated on less than five incidents.*

***Please note that there is no colored map for deaths due to cut/pierce due to low incidence, no SRA had the minimum number of incidents required to calculate rates.*

Rates of Cut/Pierce Injury Resulting in Death
By Subregional Area - FY 99/00



The incidence was too low to calculate rate for this particular injury complaint. This map was intentionally created without a color scheme.

Health Services Region Border

Subregional Area Border

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Medical Examiner's Data, FY 99/00; Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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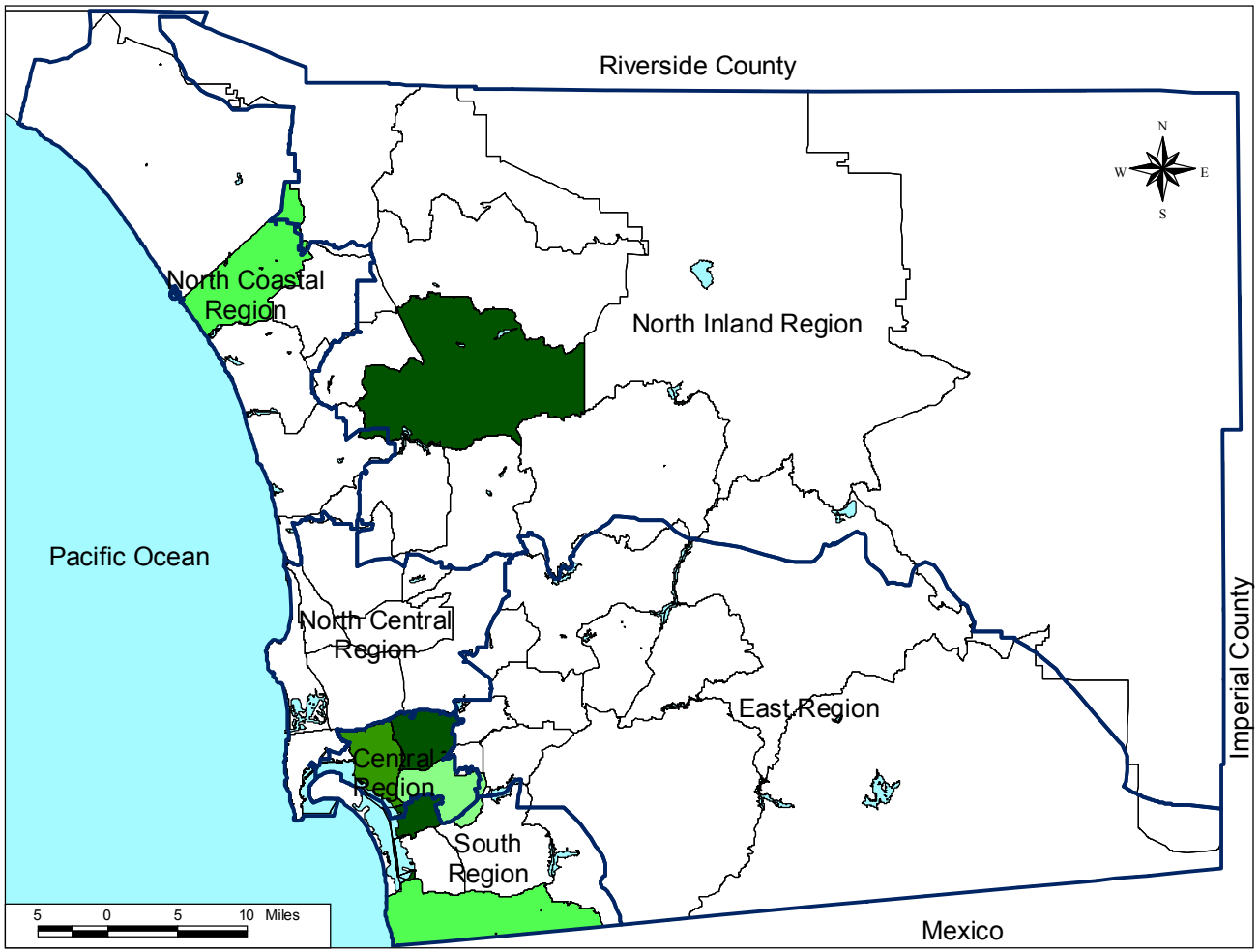
Rates of Cut/Pierce Injury Resulting in Severe Injury By Subregional Area - FY 99/00



Rate per 100,000 Population

- Incidence < 5 *
- 0.00 - 2.60
- 2.60 - 5.20
- 5.20 - 7.80
- 7.80 - 10.40
- 10.40 - 13.00
- Health Services Region Border
- Subregional Area Border

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Trauma Registry, FY 99/00; Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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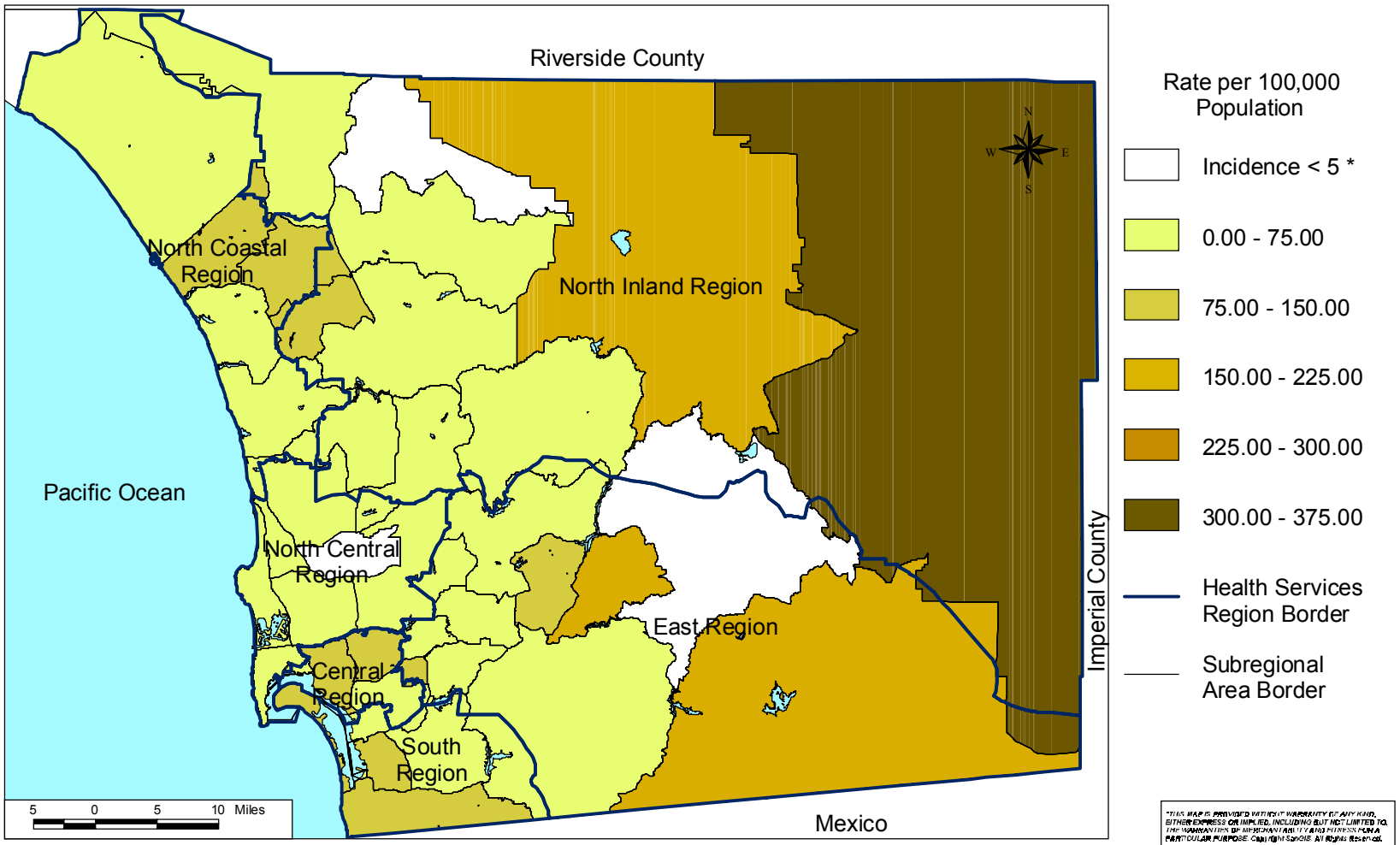
Rates of Cut/Pierce Injury Resulting in Paramedic/EMT Response By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Prehospital Patient Records, FY 99/00, Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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The Finest San Diego Counties

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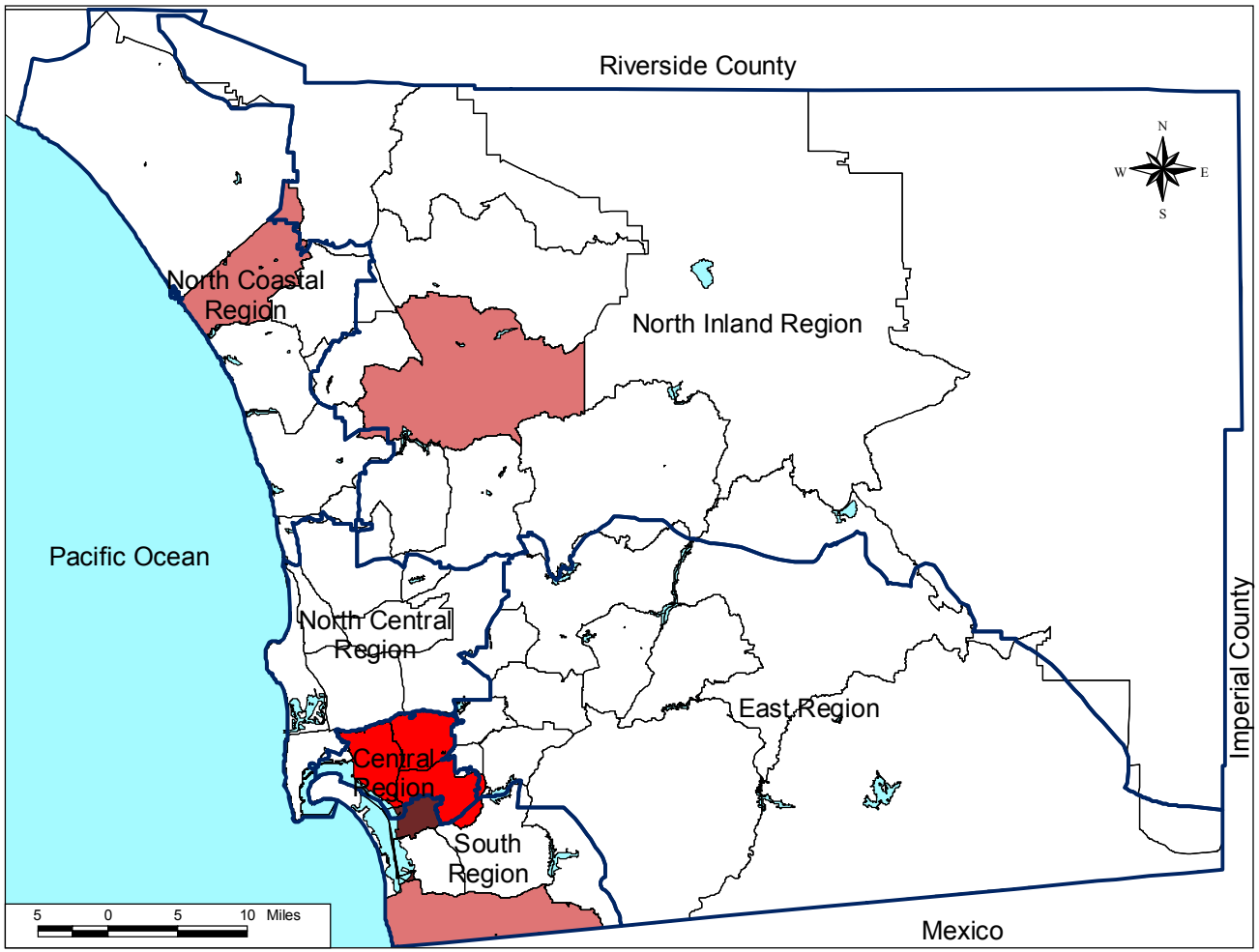
Homicide/Assault by Injury Severity by Subregional Area
County of San Diego, Fiscal Year 1999/00

	Subregional Area	SD Pop	Deaths		Severe Injuries	
			#	Rate	#	Rate
1	Central	165,602	9	5.43	49	29.59
2	Peninsula	64,037	1	*	6	9.37
3	Coronado	24,673	0	-	2	*
4	National City	55,205	7	12.68	13	23.55
5	Southeast SD	159,862	11	6.88	28	17.52
6	Mid City	160,012	9	5.62	40	25.00
10	Kearny Mesa	153,648	4	*	8	5.21
11	Coastal	81,693	2	*	7	8.57
12	University	52,872	1	*	3	*
13	Del Mar-Mira Mesa	141,902	1	*	2	*
14	North San Diego	88,356	1	*	3	*
15	Poway	83,866	0	-	4	*
16	Miramar	5,916	0	-	1	*
17	Elliot-Navajo	95,494	2	*	0	-
20	Sweetwater	77,072	4	*	0	-
21	Chula Vista	107,385	4	*	9	8.38
22	South Bay	128,779	6	4.66	18	13.98
30	Jamul	13,339	0	-	1	*
31	Spring Valley	84,235	2	*	6	7.12
32	Lemon Grove	30,656	0	-	5	16.31
33	La Mesa	61,439	1	*	3	*
34	El Cajon	122,743	2	*	3	*
35	Santee	56,869	1	*	0	-
36	Lakeside	56,567	2	*	0	-
37	Harbison-Crest	15,865	2	*	1	*
38	Alpine	13,878	2	*	1	*
39	Ramona	34,663	0	-	0	-
40	San Dieguito	89,322	0	-	1	*
41	Carlsbad	98,175	1	*	2	*
42	Oceanside	150,354	7	4.66	25	16.63
43	Pendleton	38,784	1	*	0	-
50	Escondido	143,964	6	4.17	33	22.92
51	San Marcos	67,910	0	-	3	*
52	Vista	92,895	1	*	9	9.69
53	Valley Center	20,158	2	*	3	*
54	Pauma	6,046	0	-	1	*
55	Fallbrook	44,914	1	*	7	15.59
60	Palomar-Julian	6,462	0	-	1	*
61	Laguna-Pine Valley	5,682	0	-	0	-
62	Mountain Empire	6,420	1	*	1	*
63	Anza Borego Springs	3,754		-		-
	UNKNOWN	---	12	---	304	---
	OVERALL	**2,911,468**	**106**	**3.64**	**603**	**20.71**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Medical Examiner's Data and Trauma Registry; Population Estimates: San Diego Association of Governments (SANDAG).

** Rates not calculated on less than five incidents.*

Rates of Homicide
By Subregional Area - FY 99/00



Rate per 100,000 Population

- Incidence < 5 *
- 0.00 - 2.60
- 2.60 - 5.20
- 5.20 - 7.80
- 7.80 - 10.40
- 10.40 - 13.00
- Health Services Region Border
- Subregional Area Border

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Medical Examiner's Data, FY 99/00; Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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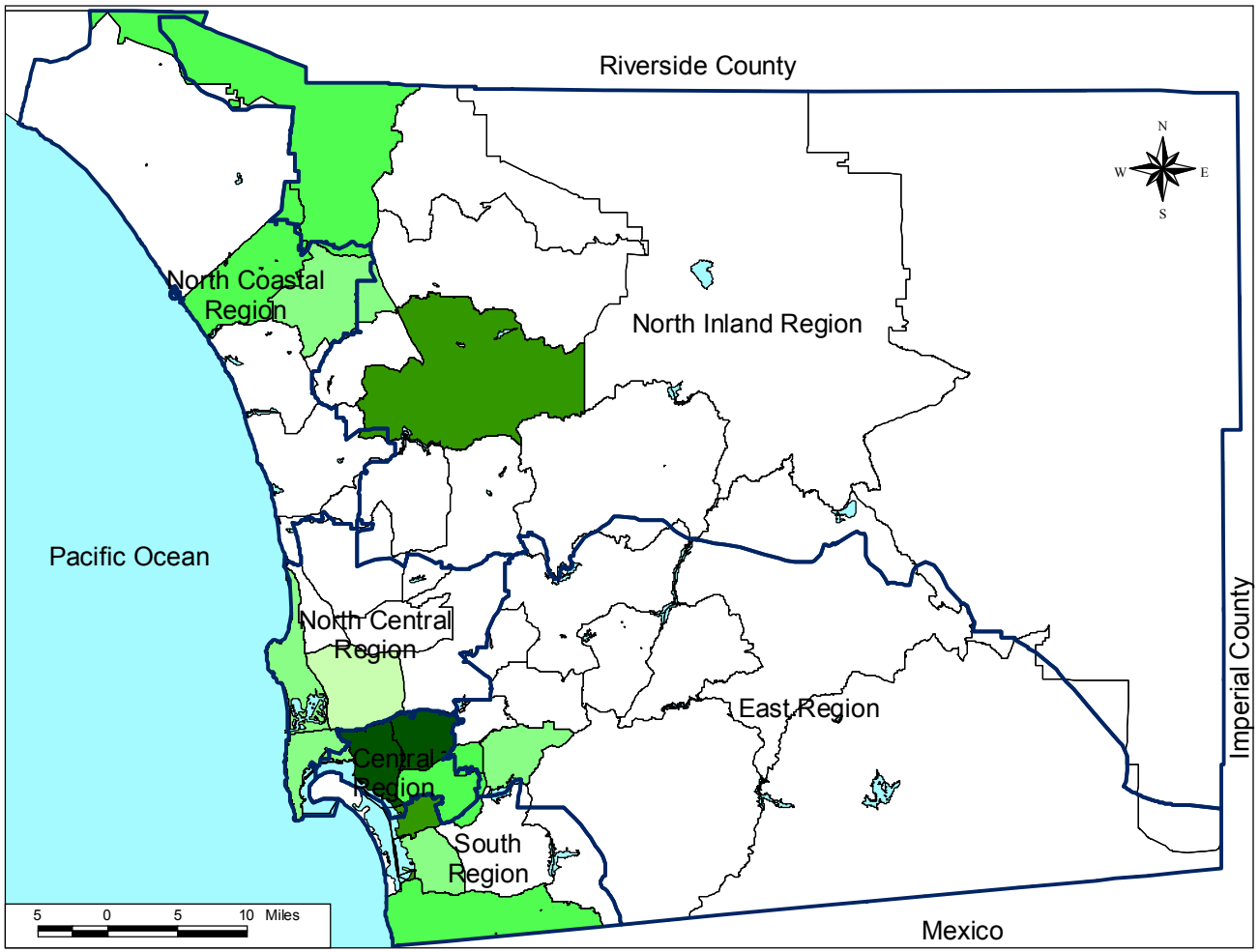
Rates of Assault Causing Severe Injury
By Subregional Area - FY 99/00



Rate per 100,000 Population

- Incidence < 5 *
- 0.00 - 6.00
- 6.00 - 12.00
- 12.00 - 18.00
- 18.00 - 24.00
- 24.00 - 30.00
- Health Services Region Border
- Subregional Area Border

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Trauma Registry, FY 99/00; Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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Suicide/Self Inflicted** by Injury Severity by Subregional Area
County of San Diego, Fiscal Year 1999/00

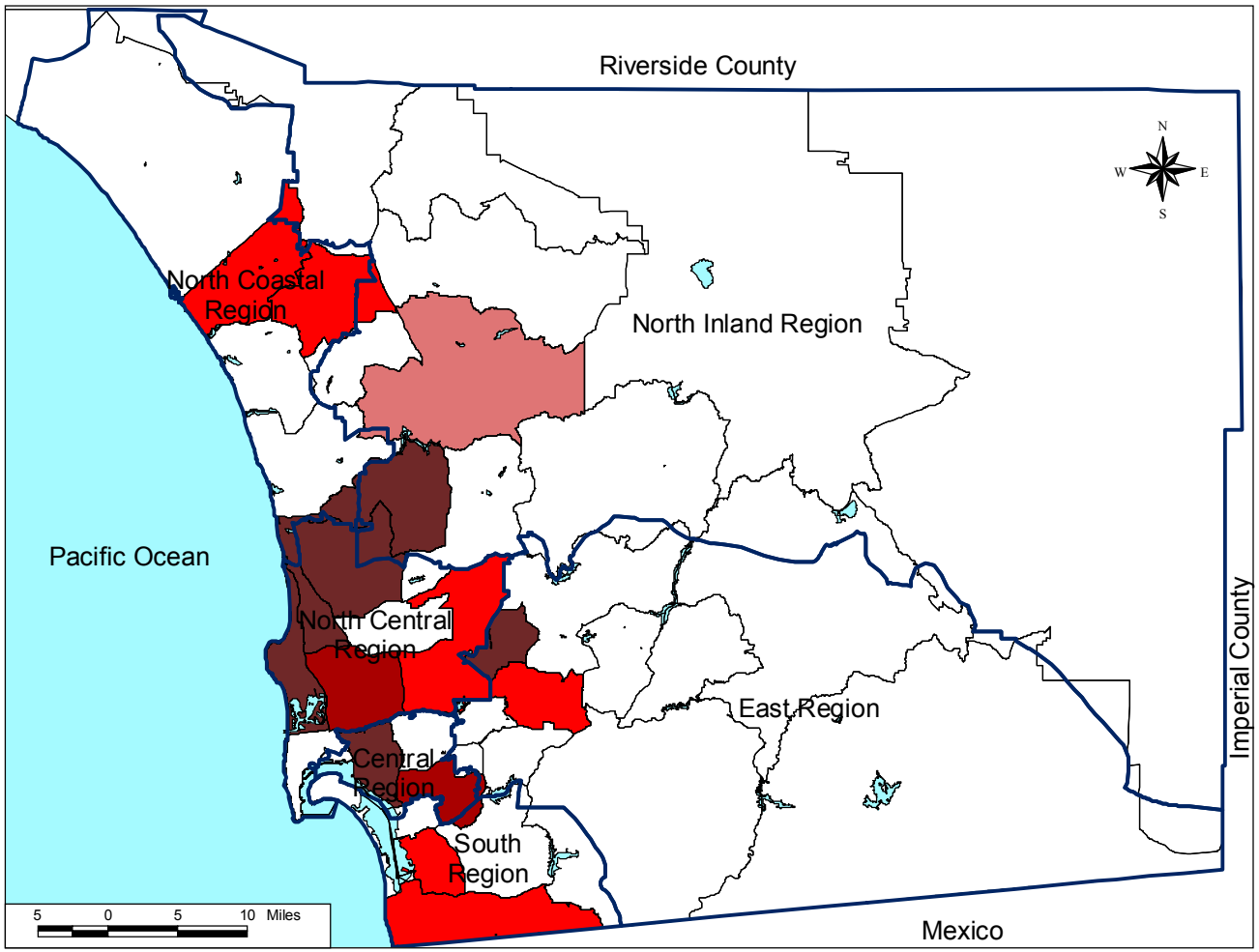
	Subregional Area	SD POP	Deaths		Severe Injuries	
			#	Rate	#	Rate
1	Central	165,602	18	10.87	9	5.43
2	Peninsula	64,037	3	*	1	*
3	Coronado	24,673	1	*	1	*
4	National City	55,205	1	*	3	*
5	Southeast SD	159,862	12	7.51	3	*
6	Mid City	160,012	4	*	5	3.12
10	Kearny Mesa	153,648	11	7.16	2	*
11	Coastal	81,693	8	9.79	2	*
12	University	52,872	5	9.46	1	*
13	Del Mar-Mira Mesa	141,902	13	9.16	0	-
14	North San Diego	88,356	8	9.05	2	*
15	Poway	83,866	3	*	0	-
16	Miramar	5,916	0	-	0	-
17	Elliot-Navajo	95,494	6	6.28	0	-
20	Sweetwater	77,072	1	*	0	-
21	Chula Vista	107,385	7	6.52	1	*
22	South Bay	128,779	7	5.44	2	*
30	Jamul	13,339	3	*	2	*
31	Spring Valley	84,235	3	*	2	*
32	Lemon Grove	30,656	1	*	0	-
33	La Mesa	61,439	3	*	0	-
34	El Cajon	122,743	6	4.89	2	*
35	Santee	56,869	6	10.55	0	-
36	Lakeside	56,567	3	*	0	-
37	Harbison-Crest	15,865	3	*	1	*
38	Alpine	13,878	0	-	1	*
39	Ramona	34,663	2	*	0	-
40	San Dieguito	89,322	3	*	0	-
41	Carlsbad	98,175	3	*	1	*
42	Oceanside	150,354	8	5.32	1	*
43	Pendleton	38,784	0	-	0	-
50	Escondido	143,964	6	4.17	5	3.47
51	San Marcos	67,910	3	*	1	*
52	Vista	92,895	5	5.38	4	*
53	Valley Center	20,158	2	*	1	*
54	Pauma	6,046	0	-	0	-
55	Fallbrook	44,914	2	*	0	-
60	Palomar-Julian	6,462	1	*	0	-
61	Laguna-Pine Valley	5,682	1	*	0	-
62	Mountain Empire	6,420	4	*	0	-
63	Anza Borego Springs	3,754	2	*	0	-
	UNKNOWN	---	1	---	26	---
	OVERALL	**2,911,468**	**179**	**6.15**	**79**	**2.71**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Medical Examiner's Data and Trauma Registry; Population Estimates: San Diego Association of Governments (SANDAG).

** Rates not calculated on less than five incidents.*

***Suicide and Self Inflicted Injury exclude death and injury due to poisoning, drowning or suffocation.*

Rates of Suicide
By Subregional Area - FY 99/00



Rate per 100,000 Population

- Incidence < 5 *
- 0.00 - 2.20
- 2.20 - 4.40
- 4.40 - 6.60
- 6.60 - 8.80
- 8.80 - 11.00
- Health Services Region Border
- Subregional Area Border

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Medical Examiner's Data, FY 99/00; Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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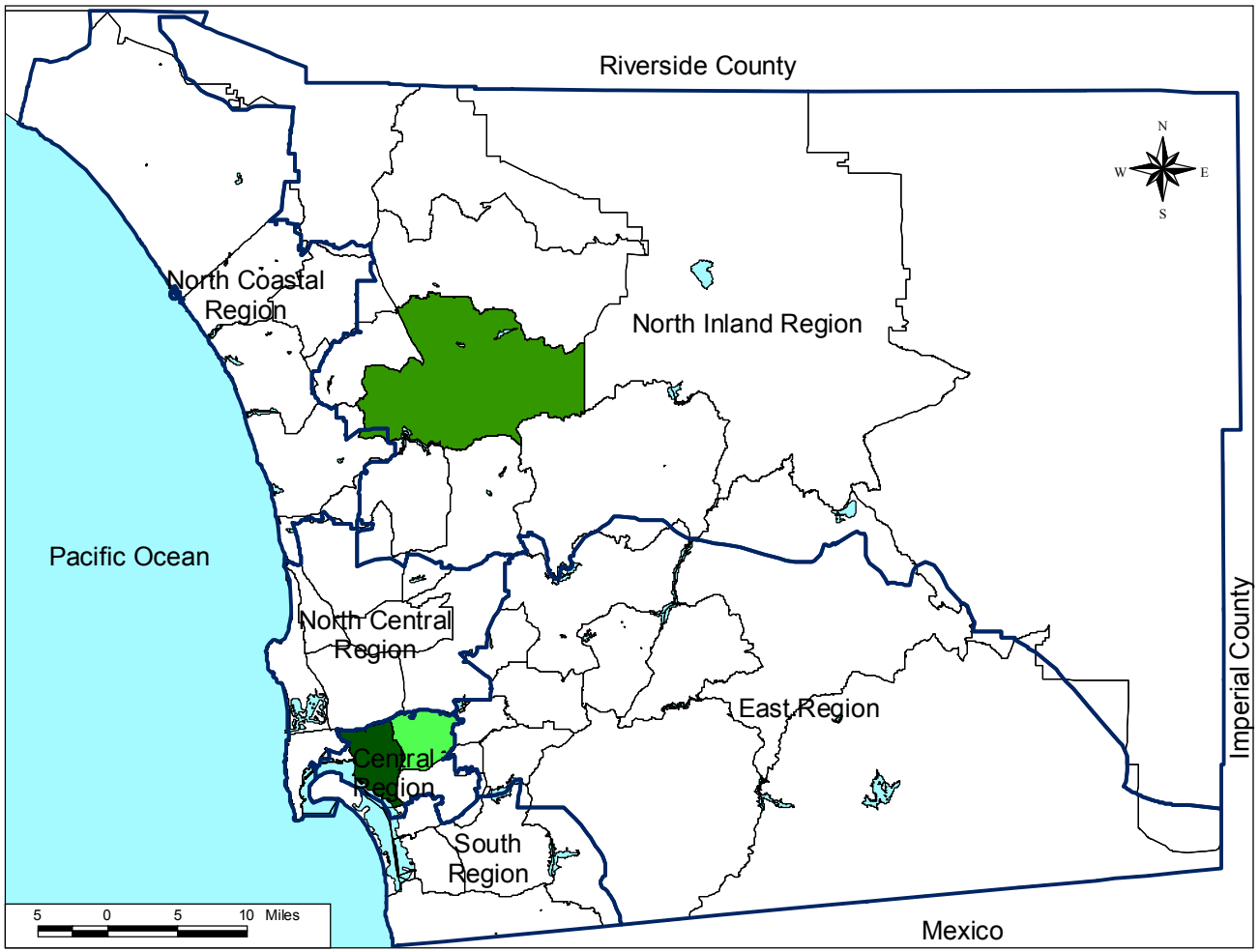
Rates of Self Inflicted Severe Injury
By Subregional Area - FY 99/00



Rate per 100,000 Population

- Incidence < 5 *
- 0.00 - 1.10
- 1.10 - 2.20
- 2.20 - 3.30
- 3.30 - 4.40
- 4.40 - 5.50
- Health Services Region Border
- Subregional Area Border

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Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Trauma Registry, FY 99/00; Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

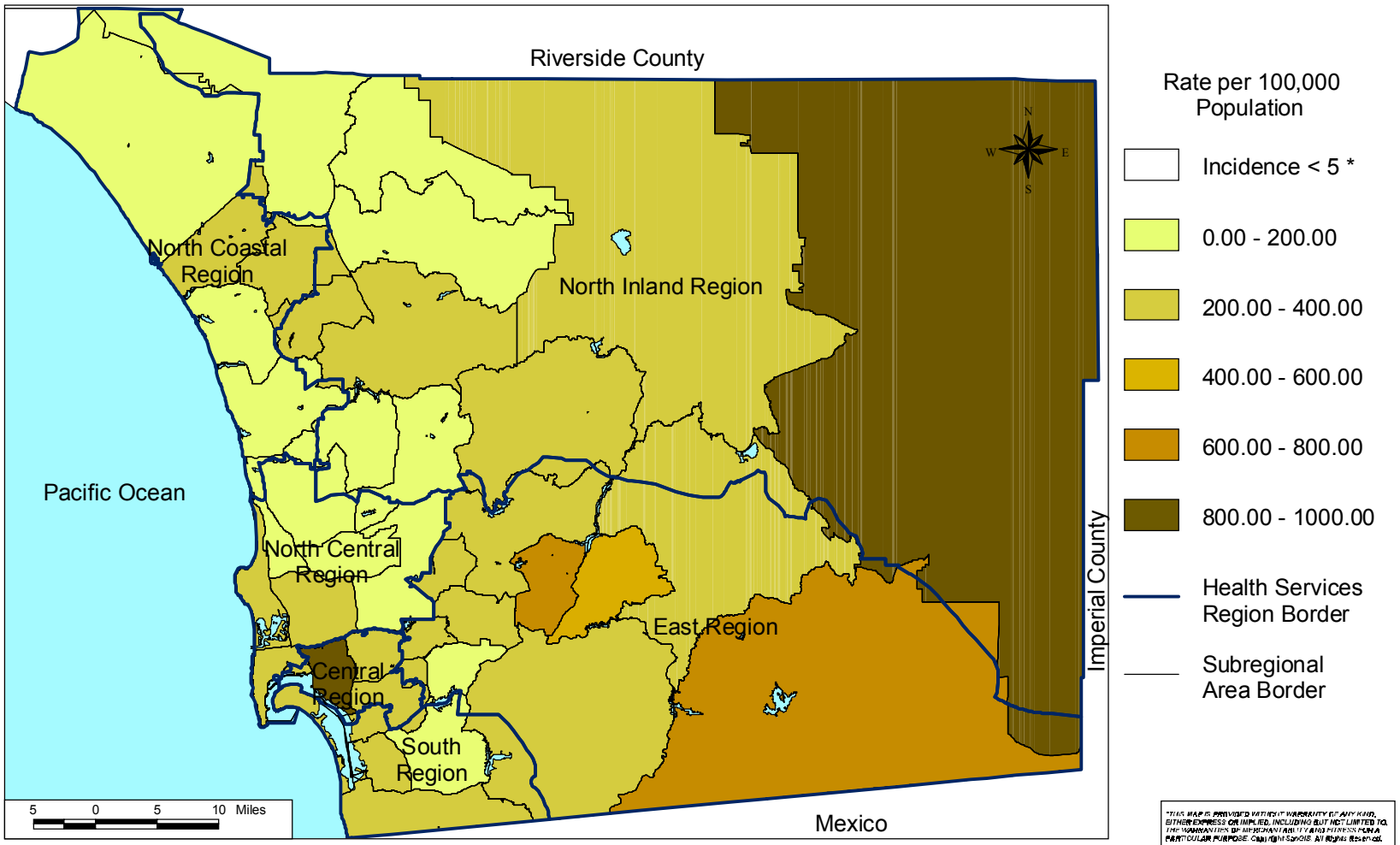
Environment/Poisoning Responses by Subregional Area
County of San Diego, Fiscal Year 1999/00

	Subregional Area	SD POP	Paramedic/EMT Response #	Paramedic/EMT Response Rate
1	Central	165,602	1,441	870.16
2	Peninsula	64,037	171	267.03
3	Coronado	24,673	85	344.51
4	National City	55,205	167	302.51
5	Southeast SD	159,862	358	223.94
6	Mid City	160,012	537	335.60
10	Kearny Mesa	153,648	501	326.07
11	Coastal	81,693	305	373.35
12	University	52,872	81	153.20
13	Del Mar-Mira Mesa	141,902	164	115.57
14	North San Diego	88,356	115	130.16
15	Poway	83,866	104	124.01
16	Miramar	5,916	6	101.42
17	Elliot-Navajo	95,494	136	142.42
20	Sweetwater	77,072	19	24.65
21	Chula Vista	107,385	313	291.47
22	South Bay	128,779	355	275.67
30	Jamul	13,339	30	224.90
31	Spring Valley	84,235	158	187.57
32	Lemon Grove	30,656	64	208.77
33	La Mesa	61,439	143	232.75
34	El Cajon	122,743	368	299.81
35	Santee	56,869	133	233.87
36	Lakeside	56,567	114	201.53
37	Harbison-Crest	15,865	98	617.71
38	Alpine	13,878	62	446.75
39	Ramona	34,663	94	271.18
40	San Dieguito	89,322	156	174.65
41	Carlsbad	98,175	143	145.66
42	Oceanside	150,354	535	355.83
43	Pendleton	38,784	65	167.59
50	Escondido	143,964	325	225.75
51	San Marcos	67,910	176	259.17
52	Vista	92,895	285	306.80
53	Valley Center	20,158	29	143.86
54	Pauma	6,046	8	132.32
55	Fallbrook	44,914	65	144.72
60	Palomar-Julian	6,462	16	247.60
61	Laguna-Pine Valley	5,682	18	316.79
62	Mountain Empire	6,420	41	638.63
63	Anza Borego Springs	3,754	36	958.98
	UNKNOWN	---	151	-
	OVERALL	**2,911,468**	**8,171**	**280.65**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Prehospital Patient Records; Population Estimates: San Diego Association of Governments (SANDAG).

** Rates not calculated on less than five incidents.*

Rates of Environment/Poisoning Complaint Resulting in Paramedic/EMT Response By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Prehospital Patient Records, FY 99/00, Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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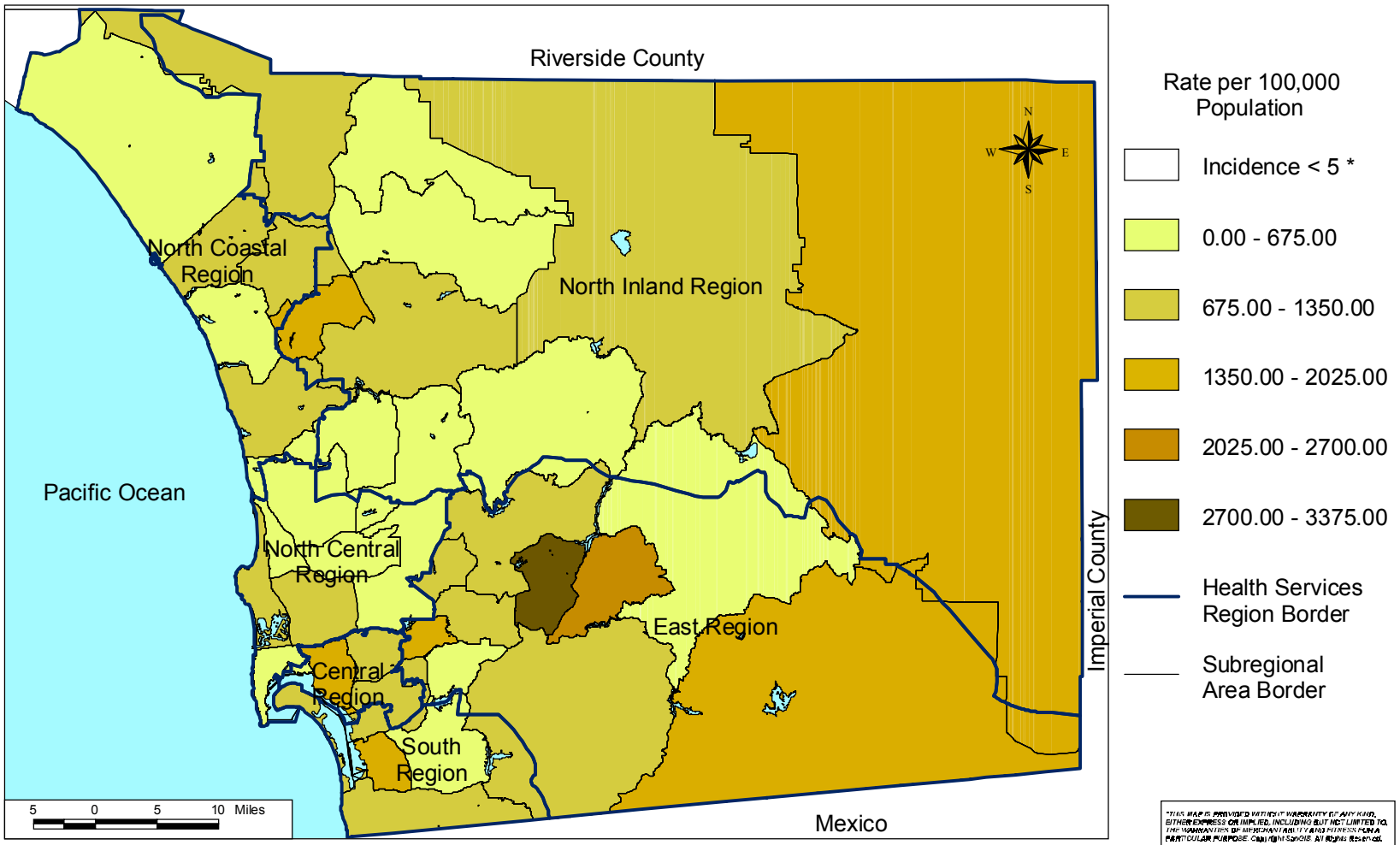
Neurological Responses by Subregional Area
County of San Diego, Fiscal Year 1999/00

	Subregional Area	SD POP	Paramedic/EMT Response	
			#	Rate
1	Central	165,602	2,621	1,582.71
2	Peninsula	64,037	379	591.85
3	Coronado	24,673	186	753.86
4	National City	55,205	681	1,233.58
5	Southeast SD	159,862	1,144	715.62
6	Mid City	160,012	1,403	876.81
10	Kearny Mesa	153,648	1,705	1,109.68
11	Coastal	81,693	780	954.79
12	University	52,872	275	520.12
13	Del Mar-Mira Mesa	141,902	514	362.22
14	North San Diego	88,356	570	645.12
15	Poway	83,866	386	460.26
16	Miramar	5,916	15	253.55
17	Elliot-Navajo	95,494	590	617.84
20	Sweetwater	77,072	169	219.28
21	Chula Vista	107,385	1,712	1,594.26
22	South Bay	128,779	925	718.28
30	Jamul	13,339	93	697.20
31	Spring Valley	84,235	550	652.94
32	Lemon Grove	30,656	350	1,141.70
33	La Mesa	61,439	994	1,617.86
34	El Cajon	122,743	1,541	1,255.47
35	Santee	56,869	406	713.92
36	Lakeside	56,567	446	788.45
37	Harbison-Crest	15,865	527	3,321.78
38	Alpine	13,878	289	2,082.43
39	Ramona	34,663	221	637.57
40	San Dieguito	89,322	608	680.68
41	Carlsbad	98,175	506	515.41
42	Oceanside	150,354	1,748	1,162.59
43	Pendleton	38,784	73	188.22
50	Escondido	143,964	1,323	918.98
51	San Marcos	67,910	1,022	1,504.93
52	Vista	92,895	1,138	1,225.04
53	Valley Center	20,158	64	317.49
54	Pauma	6,046	27	446.58
55	Fallbrook	44,914	349	777.04
60	Palomar-Julian	6,462	47	727.33
61	Laguna-Pine Valley	5,682	21	369.59
62	Mountain Empire	6,420	89	1,386.29
63	Anza Borego Springs	3,754	69	1,838.04
	UNKNOWN	---	524	-
	OVERALL	**2,911,468**	**27,080**	**930.11**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Prehospital Patient Records; Population Estimates: San Diego Association of Governments (SANDAG).

** Rates not calculated on less than five incidents.*

Rates of Neurological Complaint Resulting in Paramedic/EMT Response By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Prehospital Patient Records, FY 99/00, Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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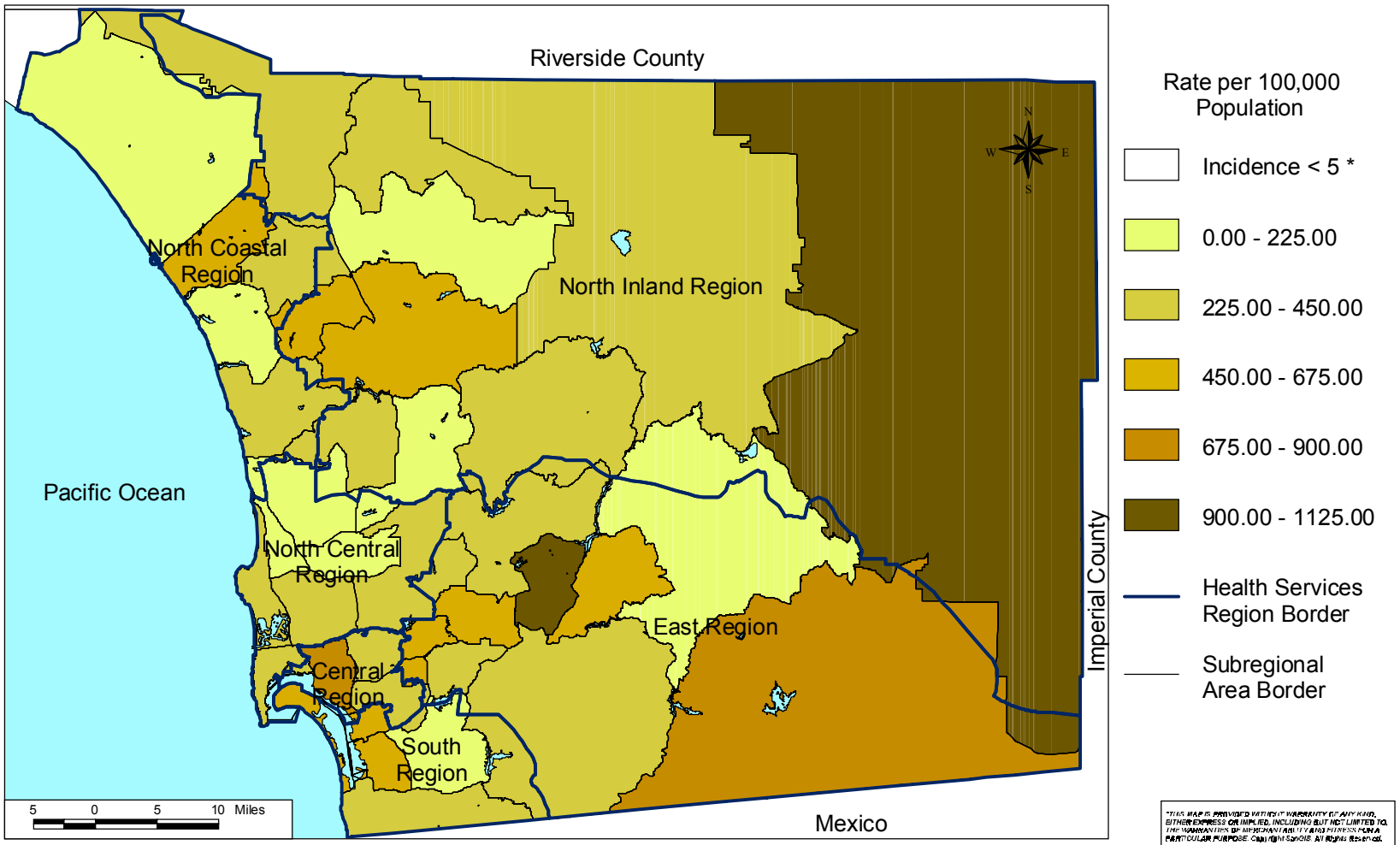
Pain Responses by Subregional Area
County of San Diego, Fiscal Year 1999/00

	Subregional Area	SD POP	Paramedic/EMT Response	
			#	Rate
1	Central	165,602	1,302	786.22
2	Peninsula	64,037	167	260.79
3	Coronado	24,673	115	466.10
4	National City	55,205	259	469.16
5	Southeast SD	159,862	509	318.40
6	Mid City	160,012	691	431.84
10	Kearny Mesa	153,648	566	368.37
11	Coastal	81,693	260	318.26
12	University	52,872	116	219.40
13	Del Mar-Mira Mesa	141,902	238	167.72
14	North San Diego	88,356	231	261.44
15	Poway	83,866	169	201.51
16	Miramar	5,916	7	118.32
17	Elliot-Navajo	95,494	227	237.71
20	Sweetwater	77,072	42	54.49
21	Chula Vista	107,385	523	487.03
22	South Bay	128,779	479	371.96
30	Jamul	13,339	45	337.36
31	Spring Valley	84,235	248	294.41
32	Lemon Grove	30,656	154	502.35
33	La Mesa	61,439	370	602.22
34	El Cajon	122,743	561	457.05
35	Santee	56,869	187	328.83
36	Lakeside	56,567	198	350.03
37	Harbison-Crest	15,865	174	1,096.75
38	Alpine	13,878	86	619.69
39	Ramona	34,663	86	248.10
40	San Dieguito	89,322	209	233.98
41	Carlsbad	98,175	202	205.76
42	Oceanside	150,354	800	532.08
43	Pendleton	38,784	74	190.80
50	Escondido	143,964	687	477.20
51	San Marcos	67,910	404	594.91
52	Vista	92,895	386	415.52
53	Valley Center	20,158	32	158.75
54	Pauma	6,046	15	248.10
55	Fallbrook	44,914	117	260.50
60	Palomar-Julian	6,462	19	294.03
61	Laguna-Pine Valley	5,682	12	211.19
62	Mountain Empire	6,420	48	747.66
63	Anza Borego Springs	3,754	39	1,038.89
	UNKNOWN	---	171	-
	OVERALL	**2,911,468**	**11,225**	**385.54**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Prehospital Patient Records; Population Estimates: San Diego Association of Governments (SANDAG).

** Rates not calculated on less than five incidents.*

Rates of Pain Complaint Resulting in Paramedic/EMT Response By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002. Prehospital Patient Records, FY 99/00, Population Estimates: San Diego Association of Governments (SANDAG), 2000.
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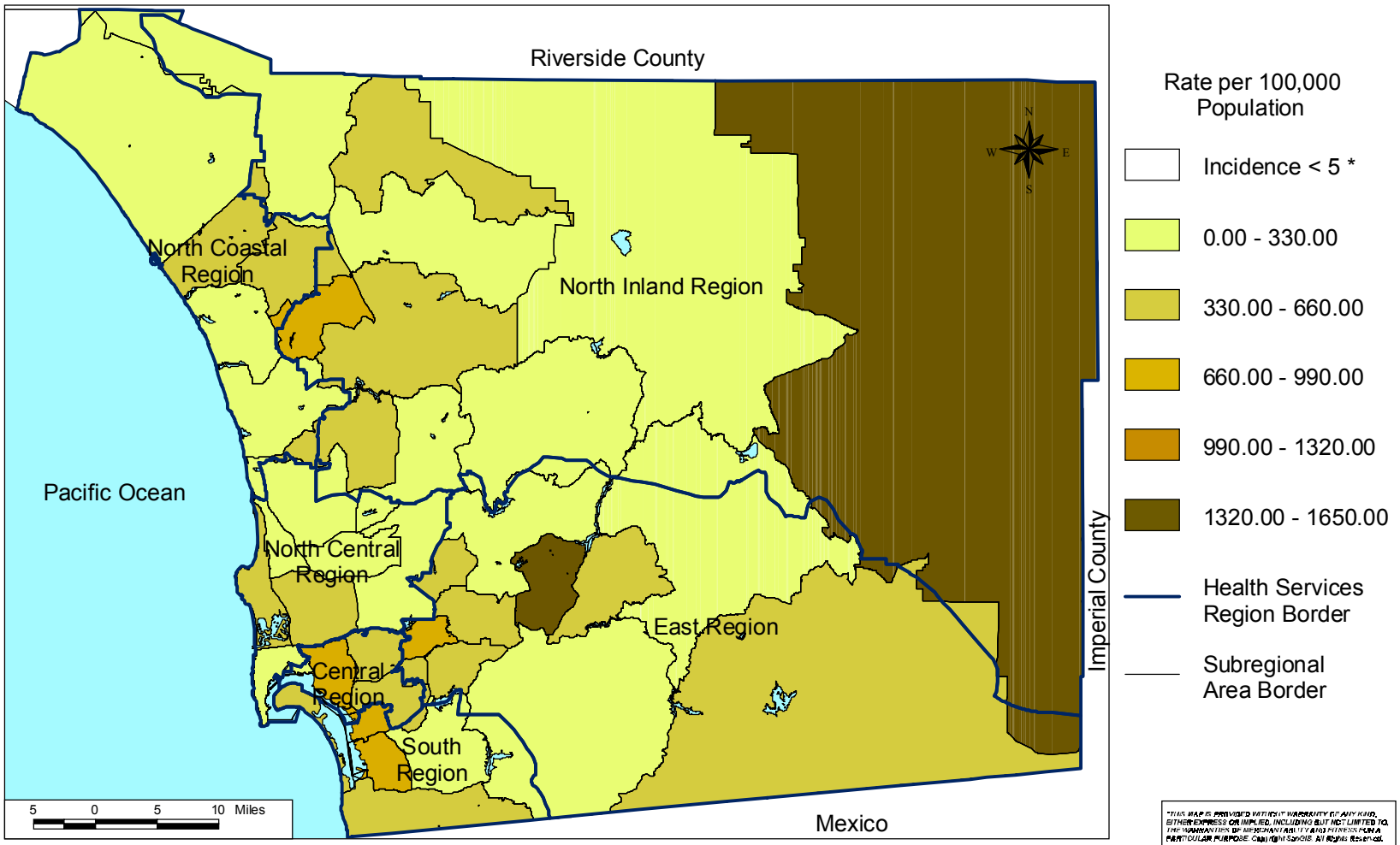
Respiratory Responses by Subregional Area
County of San Diego, Fiscal Year 1999/00

	Subregional Area	SD POP	Paramedic/EMT Response #	Paramedic/EMT Response Rate
1	Central	165,602	1,247	753.01
2	Peninsula	64,037	168	262.35
3	Coronado	24,673	104	421.51
4	National City	55,205	377	682.91
5	Southeast SD	159,862	696	435.38
6	Mid City	160,012	791	494.34
10	Kearny Mesa	153,648	727	473.16
11	Coastal	81,693	311	380.69
12	University	52,872	85	160.77
13	Del Mar-Mira Mesa	141,902	256	180.41
14	North San Diego	88,356	325	367.83
15	Poway	83,866	176	209.86
16	Miramar	5,916	7	118.32
17	Elliot-Navajo	95,494	298	312.06
20	Sweetwater	77,072	63	81.74
21	Chula Vista	107,385	726	676.07
22	South Bay	128,779	483	375.06
30	Jamul	13,339	38	284.88
31	Spring Valley	84,235	305	362.08
32	Lemon Grove	30,656	152	495.82
33	La Mesa	61,439	494	804.05
34	El Cajon	122,743	649	528.75
35	Santee	56,869	280	492.36
36	Lakeside	56,567	168	296.99
37	Harbison-Crest	15,865	259	1,632.52
38	Alpine	13,878	65	468.37
39	Ramona	34,663	102	294.26
40	San Dieguito	89,322	247	276.53
41	Carlsbad	98,175	235	239.37
42	Oceanside	150,354	971	645.81
43	Pendleton	38,784	46	118.61
50	Escondido	143,964	695	482.76
51	San Marcos	67,910	487	717.13
52	Vista	92,895	546	587.76
53	Valley Center	20,158	45	223.24
54	Pauma	6,046	21	347.34
55	Fallbrook	44,914	132	293.89
60	Palomar-Julian	6,462	15	232.13
61	Laguna-Pine Valley	5,682	7	123.20
62	Mountain Empire	6,420	39	607.48
63	Anza Borego Springs	3,754	57	1,518.38
	UNKNOWN	---	249	-
	OVERALL	**2,911,468**	**13,144**	**451.46**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Prehospital Patient Records; Population Estimates: San Diego Association of Governments (SANDAG).

** Rates not calculated on less than five incidents.*

Rates of Respiratory Complaint Resulting in Paramedic/EMT Response By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002. Prehospital Patient Records, FY 99/00, Population Estimates: San Diego Association of Governments (SANDAG), 2000.
* Rates not calculated on incidence less than 5.

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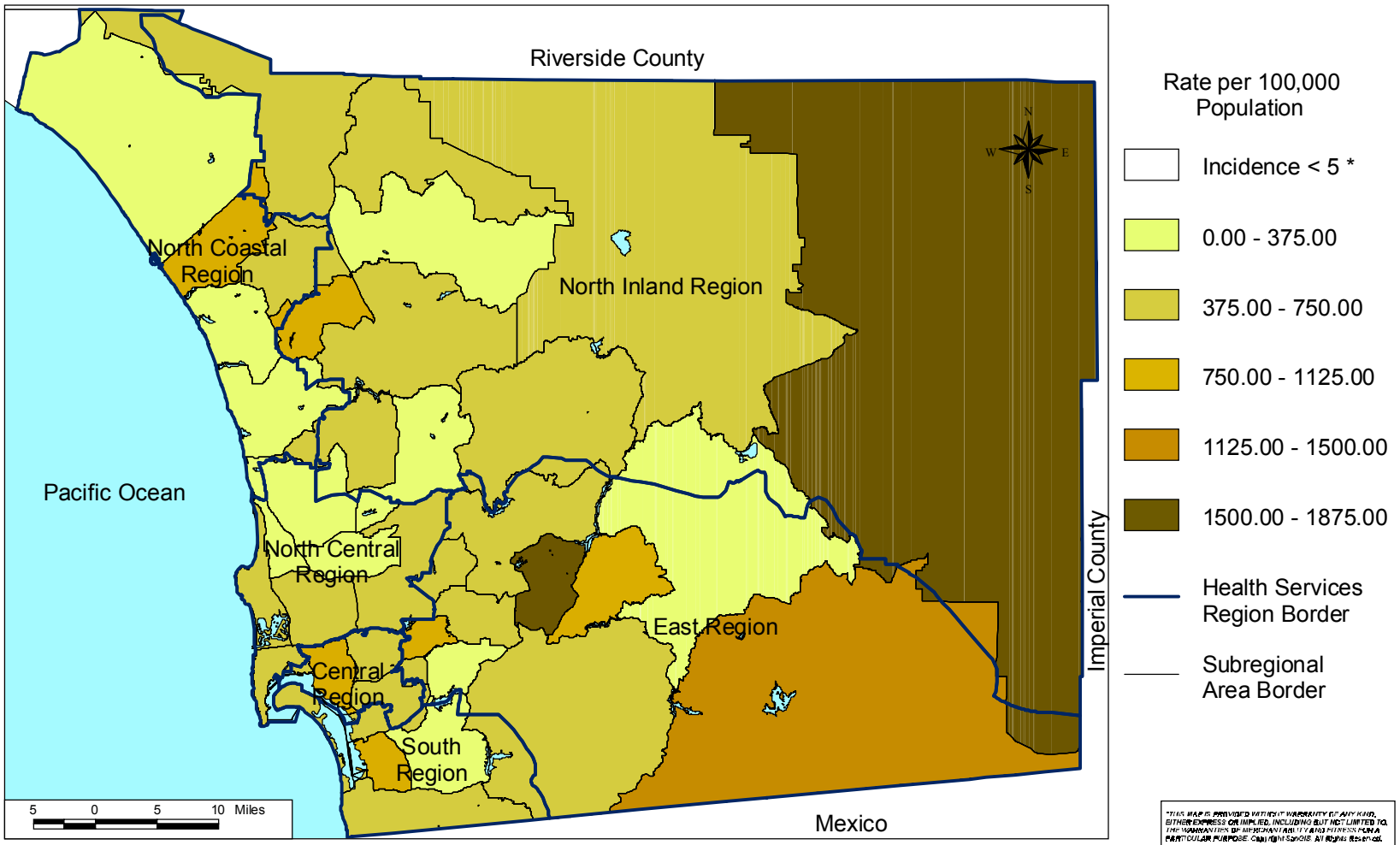
Cardiac Responses by Subregional Area
County of San Diego, Fiscal Year 1999/00

	Subregional Area	SD POP	Paramedic/EMT Response	
			#	Rate
1	Central	165,602	1,534	926.32
2	Peninsula	64,037	241	376.34
3	Coronado	24,673	129	522.84
4	National City	55,205	310	561.54
5	Southeast SD	159,862	664	415.36
6	Mid City	160,012	815	509.34
10	Kearny Mesa	153,648	955	621.55
11	Coastal	81,693	389	476.17
12	University	52,872	157	296.94
13	Del Mar-Mira Mesa	141,902	328	231.15
14	North San Diego	88,356	447	505.91
15	Poway	83,866	239	284.98
16	Miramar	5,916	14	236.65
17	Elliot-Navajo	95,494	363	380.13
20	Sweetwater	77,072	97	125.86
21	Chula Vista	107,385	825	768.26
22	South Bay	128,779	593	460.48
30	Jamul	13,339	62	464.80
31	Spring Valley	84,235	296	351.40
32	Lemon Grove	30,656	162	528.44
33	La Mesa	61,439	558	908.22
34	El Cajon	122,743	791	644.44
35	Santee	56,869	302	531.05
36	Lakeside	56,567	258	456.10
37	Harbison-Crest	15,865	252	1,588.40
38	Alpine	13,878	141	1,016.00
39	Ramona	34,663	171	493.32
40	San Dieguito	89,322	333	372.81
41	Carlsbad	98,175	349	355.49
42	Oceanside	150,354	1,256	835.36
43	Pendleton	38,784	64	165.02
50	Escondido	143,964	1,013	703.65
51	San Marcos	67,910	613	902.67
52	Vista	92,895	689	741.70
53	Valley Center	20,158	66	327.41
54	Pauma	6,046	27	446.58
55	Fallbrook	44,914	195	434.16
60	Palomar-Julian	6,462	29	448.78
61	Laguna-Pine Valley	5,682	12	211.19
62	Mountain Empire	6,420	91	1,417.45
63	Anza Borego Springs	3,754	70	1,864.68
	UNKNOWN	---	356	---
	OVERALL	**2,911,468**	**16,256**	**558.34**

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services; Prehospital Patient Records; Population Estimates: San Diego Association of Governments (SANDAG).

** Rates not calculated on less than five incidents.*

Rates of Cardiac Complaint Resulting in Paramedic/EMT Response By Subregional Area - FY 99/00



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, April 2002.
Prehospital Patient Records, FY 99/00, Population Estimates: San Diego Association of Governments (SANDAG), 2000.
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We acknowledge the contributions of the following individuals for their work in the preparation of this report:

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Barbara M. Stepanski, MPH; Biostatistician

Introduction

The Division of Emergency Medical Services

The Division of Emergency Medical Services (EMS) is a component of the Health and Human Services Agency's public health group. It is the local EMS agency as defined in California law. Its purpose is to ensure that the quality of emergency medical services, which includes 9-1-1 ambulance services, trauma care services, disaster medical services, and non-emergency ambulance services, is of the highest quality. As the regulatory agency for emergency medical services, it designates participants in the countywide EMS system (base hospitals, advanced life support providers, trauma centers, prehospital training programs, etc.); monitors system activity with a large data network; develops the medical standard of care for emergency patients; and provides the framework for medical quality improvement activities. Additionally, it provides services within two ambulance districts (County Service Areas 17 & 69), oversees the County's medical disaster plan and implements numerous community education, prevention and research grants/projects.

This Atlas is an example of the kind of information made available to the EMS community and public policy-makers to better understand and manage one of the most important components in the continuum of healthcare in any community, its emergency medical services system.

Purpose

The purpose of this publication is provide a visual representation of where and why people access emergency medical systems in San Diego County. It is designed to help Health and Human Services Agency staff in the Health Services Regions identify problems within the communities in their regions.

Layout

This Atlas provides an overview of emergency medical and injury complaints by level of severity based on data routinely collected by the Division of Emergency Medical Services. The Paramedic/EMT maps contain both medical and injury chief complaints as reported by paramedics and emergency medical technicians. The Severe Injury and Death maps are based on San Diego County Trauma Registry data and include injury complaints only. Data for severe injuries are obtained from the six trauma centers in the San Diego County Trauma System and data for deaths are obtained from Medical Examiner's Records.

This Atlas is a compilation of choropleth maps in which incidence rate ranges are displayed as color gradients for each subregional or community area. All rates are calculated per 100,000 residents by subregional area as defined by San Diego Association of Governments (SANDAG).

The palettes of the maps are color coded to represent the different levels of severity. Maps showing Deaths are red, maps showing Severe Injuries are green, and maps showing Paramedic/EMT responses are yellow.

A data table with incidence and rate by complaint and severity precedes each group of maps. Complete annual reports on this data are available from the Division of Emergency Medical Services. These reports contain information by age group, race/ethnicity, gender, time, location and other variables.

Data Sources

The Division of Emergency Medical Services (EMS) used the following data sources in the preparation of this report. These sources are population based. For the purposes of this report, the Medical Examiner's Data and the Trauma Registry include injuries from trauma only. Medical complaints are not available from these databases. Therefore, when looking at intentional injuries, homicides/assaults and suicides/self-inflicted due to medical causes such as poisoning and asphyxiation are not included. For the period covered in this report, prehospital data was not collected by intent of injury.

Medical Examiner's Data: EMS receives an Investigative Summary and Autopsy for every individual who dies in San Diego County from a traumatic injury. Medical Examiner's Records contain injury related information including date and time of injury, incident location, patient home zip code, external cause of injury (ICD9 CM E code), age, sex, race/ethnicity, vehicle make and type, law enforcement agency and report number, mechanism of injury and detailed narrative of injuries sustained.

Trauma Registry: EMS receives a Trauma Registry for every trauma patient admitted to any of the designated trauma center hospitals who meets one or more of the following criteria: length of hospitalization of 24 hours or more, admission to intensive or intermediate care unit, death due to traumatic injuries, and/or transfer to or from another acute care hospital.

Prehospital Database: EMS receives a prehospital patient record (PPR) for every patient seen by a paramedic or emergency medical technician. The PPR contains information including demographics, incident zip code location, chief complaint, patient status, injury event information, restraint use, contributing factors, times and outcomes.

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